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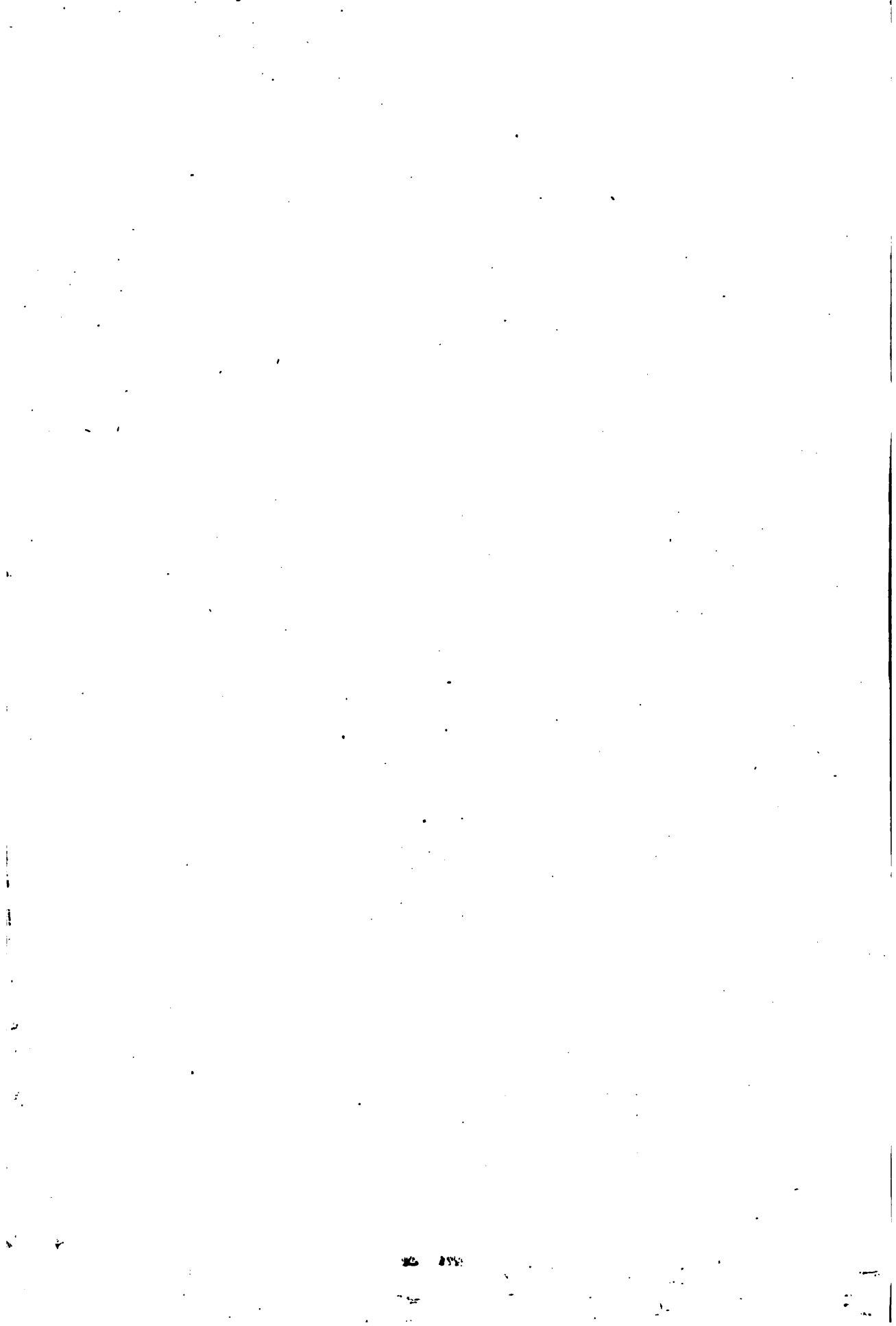
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MODERN PAINTERS.

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VOLUME IV.

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The Gates of the Hills.





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## P R E F A C E.

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I WAS in hopes that this volume might have gone its way without preface; but as I look over the sheets, I find in them various fallings short of old purposes which require a word of explanation.

Of which shortcomings, the chief is the want of reference to the landscape of the Poussins and Salvator; my original intention having been to give various examples of their mountain-drawing, that it might be compared with Turner's. But the ten years intervening between the commencement of this work and its continuation have taught me, among other things, that Life is shorter and less availably divisible than I had supposed: and I think now that its hours may be better employed than in making facsimiles of bad work. It would have required the greatest care, and prolonged labour, to give uncaricatured representations of Salvator's painting, or of any other work depending on the free dashes of the

brush, so as neither to mend nor mar it. Perhaps in the next volume I may give one or two examples associated with vegetation; but in general, I shall be content with directing the reader's attention to the facts in nature, and in Turner; leaving him to carry out for himself whatever comparisons he may judge expedient.

I am afraid, also, that disappointment may be felt at not finding plates of more complete subject illustrating these chapters on mountain beauty. But the analysis into which I had to enter required the dissection of drawings, rather than their complete presentation; while, also, on the scale of any readable page, no effective presentation of large drawings could be given. Even my vignette, the frontispiece to the third volume, is partly spoiled by having too little white paper about it; and the fiftieth plate, from Turner's Goldau, necessarily omits, owing to its reduction, half the refinements of the foreground. It is quite waste of time and cost to reduce Turner's drawings at all; and I therefore consider these volumes only as *guides* to them, hoping hereafter to illustrate some of the best on their own scale.

Several of the plates appear, in their present position, nearly unnecessary; 14. and 15., for instance, in Vol. III. These are illustrations of the chapters on the Firmament in the fifth volume; but I should have had the plates disproportionately crowded at last, if I had put all that it needed in that volume; and as these two bear somewhat

on various matters spoken of in the third, I placed them where they are first alluded to. The frontispiece has chief reference to the same chapters; but seemed in its three divisions, properly introductory to our whole subject. It is a simple sketch from nature, taken at sunset from the hills near Como, some two miles up the eastern side of the lake, and about a thousand feet above it, looking towards Lugano. The sky is a little too heavy for the advantage of the landscape below; but I am not answerable for the sky. It was *there*.<sup>1</sup>

In the multitudinous letterings and references of this volume there may possibly be one or two awkward errata; but not so many as to make it necessary to delay the volume while I look it over again in search of them. The reader will perhaps be kind enough to note at once that in page 184., at the fourth line from the bottom of the text, the words "general truth" refer to the angle-measurements, not to the diagrams; which latter are given merely for reference, and might cause some embarrassment if the statement of measured accuracy were supposed to refer to them.

One or two graver misapprehensions I had it in my mind to warn the reader against; but on the whole, as I

<sup>1</sup> Persons unacquainted with hill scenery are apt to forget that the sky of the mountains is often close to the spectator. A black thundercloud may literally be dashing itself in his face, while the blue hills seen through its rents may be thirty miles away. Generally speaking, we do not enough understand the nearness of many clouds, even in level countries, as compared with the land horizon. See also the close of § 12. in Chap. III. of this volume.

have honestly tried to make the book intelligible, I believe it will be found intelligible by any one who thinks it worth a careful reading; and every day convinces me more and more that no warnings can preserve from misunderstanding, those who have no desire to understand.

Denmark Hill, March, 1856.

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# MODERN PAINTERS.

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## PART V.

### OF MOUNTAIN BEAUTY.

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#### CHAPTER I.

##### OF THE TURNERIAN PICTURESQUE.

§ 1. THE work which we proposed to ourselves, towards the close of the last volume, as first to be undertaken in this, was the examination of those peculiarities of system in which Turner either stood alone, even in the modern school, or was a distinguished representative of modern, as opposed to ancient, practice.

And the most interesting of these subjects of inquiry, with which, therefore, it may be best to begin, is the precise form under which he has admitted into his work the modern feeling of the picturesque, which, so far as it consists in a delight in ruin, is perhaps the most suspicious and questionable of all the characters distinctively belonging to our temper, and art.

It is especially so, because it never appears, even in the slightest measure, until the days of the decline of art in the seventeenth century. The love of neatness and precision, as opposed to all disorder, maintains itself down to Raphael's childhood without the slightest interference of any other feeling; and it is not until Claude's time, and owing in great part to his influence, that the new feeling distinctly establishes itself.

Plate 18. shows the kind of modification which Claude used to make on the towers and backgrounds of Ghirlandajo; the old Florentine giving his idea of Pisa, with its leaning tower, with the utmost neatness and precision, and handsome youths riding over neat bridges on beautiful horses; Claude reducing the delicate towers and walls to unintelligible ruin, the well built bridge to a rugged stone one, the handsome rider to a weary traveller, and the perfectly drawn leafage to confusion of copsewood or forest.<sup>1</sup>

How far he was right in doing this; or how far the moderns are right in carrying the principle to greater excess, and seeking always for poverty-stricken rusticity or pensive ruin, we must now endeavour to ascertain.

The essence of picturesque character has been already defined<sup>2</sup> to be a sublimity not inherent in the nature of the thing, but caused by something external to it; as the ruggedness of a cottage roof possesses something of a mountain aspect, not belonging to the cottage as such. And this sublimity may be either in mere external ruggedness, and other visible character, or it may lie deeper, in an expression of sorrow and old age, attributes which are both sublime; not a dominant expression, but one mingled with such familiar and common characters as prevent the object from becoming perfectly pathetic in its sorrow, or perfectly venerable in its age.

§ 2. For instance, I cannot find words to express the intense pleasure I have always in first finding myself, after some prolonged stay in England, at the foot of the old tower of Calais church. The large neglect, the noble unsightliness of it; the record of its years written so visibly, yet without sign of weakness or decay; its stern wasteness and gloom, eaten away by the Channel winds, and overgrown with the bitter sea grasses; its slates and tiles all shaken and rent, and yet not falling; its

<sup>1</sup> Ghirlandajo is seen to the greatest possible disadvantage in this plate, as I have been forced again to copy from Lasinio, who leaves out all the light and shade, and vulgarizes every form; but the points requiring notice here are sufficiently shown, and I will do Ghirlandajo more justice hereafter.

<sup>2</sup> Seven Lamps of Architecture, chap. vi. § 12.







Lasinio and Earlom

J H Le Keux

18. The Transition from Ghirlandajo to Claude.



desert of brickwork full of bolts, and holes, and ugly fissures, and yet strong, like a bare brown rock; its carelessness of what any one thinks or feels about it, putting forth no claim, having no beauty nor desirableness, pride, nor grace; yet neither asking for pity; not, as ruins are, useless and piteous, feebly or fondly garrulous of better days; but useful still, going through its own daily work,—as some old fisherman beaten grey by storm, yet drawing his daily nets: so it stands, with no complaint about its past youth, in blanched and meagre massiveness and serviceableness, gathering human souls together underneath it; the sound of its bells for prayer still rolling through its rents; and the grey peak of it seen far across the sea, principal of the three that rise above the waste of surfy sand and hillocked shore,—the lighthouse for life, and the belfry for labour, and this for patience and praise.

§ 3. I cannot tell the half of the strange pleasures and thoughts that come about me at the sight of that old tower; for, in some sort, it is the epitome of all that makes the Continent of Europe interesting, as opposed to new countries; and, above all, it completely expresses that agedness in the midst of active life which binds the old and the new into harmony. We, in England, have our new street, our new inn, our green shaven lawn, and our piece of ruin emergent from it,—a mere *specimen* of the middle ages put on a bit of velvet carpet to be shown, which, but for its size, might as well be on a museum shelf at once, under cover. But, on the Continent, the links are unbroken between the past and present, and in such use as they can serve for, the grey-headed wrecks are suffered to stay with men; while, in unbroken line, the generations of spared buildings are seen succeeding each in its place. And thus in its largeness, in its permitted evidence of slow decline, in its poverty, in its absence of all pretence, of all show and care for outside aspect, that Calais tower has an infinite of symbolism in it, all the more striking because usually seen in contrast with English scenes expressive of feelings the exact reverse of these.

§ 4. And I am sorry to say that the opposition is most distinct in that noble carelessness as to what people think of it. Once,

on coming from the Continent, almost the first inscription I saw in my native English was this:

**"To Let, a Genteel House, up this road."**

And it struck me forcibly, for I had not come across the idea of gentility, among the upper limestones of the Alps, for seven months; nor do I think that the Continental nations in general *have* the idea. They would have advertised a "pretty" house, or a "large" one, or a "convenient" one; but they could not, by any use of the terms afforded by their several languages, have got at the English "genteel." Consider, a little, all the meanness that there is in that epithet, and then see, when next you cross the Channel, how scornful of it that Calais spire will look.

- § 5. Of which spire the largeness and age are also opposed exactly to the chief appearances of modern England, as one feels them on first returning to it; that marvellous smallness both of houses and scenery, so that a ploughman in the valley has his head on a level with the tops of all the hills in the neighbourhood; and a house is organized into complete establishment,—parlour, kitchen, and all, with a knocker to its door, and a garret window to its roof, and a bow to its second story<sup>1</sup>, on a scale of 12 feet wide by 15 high, so that three such at least would go into the granary of an ordinary Swiss cottage: and also our serenity of perfection, our peace of conceit, everything being done that vulgar minds can conceive as wanting to be done; the spirit of well-principled housemaids everywhere, exerting itself for perpetual propriety and renovation, so that nothing is old, but only "old-fashioned," and contemporary, as it were, in date and impressiveness only with last year's bonnets. Abroad, a building of the eighth or tenth century stands ruinous in the open street; the children play round it, the peasants heap their corn in it, the buildings of yesterday nestle about it, and fit their new stones into its rents, and tremble in sympathy as it trembles. No one wonders at it, or thinks of it as separate, and of another time; we feel the ancient world to be a real

<sup>1</sup> The principal street of Canterbury has some curious examples of this *tininess*.



thing, and one with the new: antiquity is no dream; it is rather the children playing about the old stones that are the dream. But all is continuous; and the words, "from generation to generation," understandable there. Whereas here we have a living present, consisting merely of what is "fashionable" and "old-fashioned;" and a past, of which there are no vestiges; a past which peasant or citizen can no more conceive; all equally far away; Queen Elizabeth as old as Queen Boadicea, and both incredible. At Verona we look out of Can Grande's window to his tomb; and if he does not stand beside us, we feel only that he is in the grave instead of the chamber,—not that he is *old*, but that he might have been beside us last night. But in England the dead are dead to purpose. One cannot believe they ever were alive, or anything else than what they are now—names in school-books.

- § 6. Then that spirit of trimness. The smooth paving-stones; the scraped, hard, even, rutless roads; the neat gates and plates, and essence of border and order, and spikiness and spruceness. Abroad, a country-house has some confession of human weakness and human fates about it. There are the old grand gates still, which the mob pressed sore against at the Revolution, and the strained hinges have never gone so well since; and the broken greyhound on the pillar—still broken—better so: but the long avenue is gracefully pale with fresh green, and the courtyard bright with orange-trees; the garden is a little run to waste—since Mademoiselle was married nobody cares much about it; and one range of apartments is shut up—nobody goes into them since Madame died. But with us, let who will be married or die, we neglect nothing. All is polished and precise again next morning; and whether people are happy or miserable, poor or prosperous, still we sweep the stairs of a Saturday.<sup>1</sup>
- § 7. Now, I have insisted long on this English character, because I want the reader to understand thoroughly the opposite element

<sup>1</sup> This, however, is of course true only of insignificant duties, necessary for appearance' sake. Serious duties, necessary for kindness' sake, must be pretermitted in any domestic affliction, under pain of shocking the English public.

of the noble picturesque; its expression, namely, of *suffering*, of *poverty*, or *decay*, nobly endured by unpretending strength of heart. Nor only unpretending, but unconscious. If there be visible pensiveness in the building, as in a ruined abbey, it becomes, or claims to become, beautiful; but the picturesqueness is in the unconscious suffering,—the look that an old labourer has, not knowing that there is anything pathetic in his grey hair, and withered arms, and sunburnt breast; and thus there are the two extremes, the consciousness of pathos in the confessed ruin, which may or may not be beautiful, according to the kind of it; and the entire denial of all human calamity and care, in the swept proprieties and neatnesses of English modernism: and, between these, there is the unconscious confession of the facts of distress and decay, in by-words; the world's hard work being gone through all the while, and no pity asked for, nor contempt feared. And this is the expression of that Calais spire, and of all picturesque things, in so far as they have mental or human expression at all.

§ 8. I say, in so far as they have mental expression, because their merely outward delightfulness—that which makes them pleasant in painting, or, in the literal sense, picturesque—is their actual variety of colour and form. A broken stone has necessarily more various forms in it than a whole one; a bent roof has more various curves in it than a straight one; every excrescence or cleft involves some additional complexity of light and shade, and every stain of moss on eaves or wall adds to the delightfulness of colour. Hence, in a completely picturesque object, as an old cottage or mill, there are introduced, by various circumstances not essential to it, but, on the whole, generally somewhat detrimental to it as cottage or mill, such elements of sublimity—complex light and shade, varied colour, undulatory form, and so on—as can generally be found only in noble natural objects, woods, rocks, or mountains. This sublimity, belonging in a parasitical manner to the building, renders it, in the usual sense of the word, “picturesque.”

§ 9. Now, if this outward sublimity be sought for by the painter, without any regard for the real nature of the thing, and without





1. Pure Modern



2. Turnerian

## 19. The Picturesque of Windmills





any comprehension of the pathos of character hidden beneath, it forms the low school of the surface-picturesque; that which fills ordinary drawing-books and scrap-books, and employs, perhaps, the most popular living landscape painters of France, England, and Germany. But if these same outward characters be sought for in subordination to the inner character of the object, every source of pleasurable being refused which is incompatible with that, while perfect sympathy is felt at the same time with the object as to all that it tells of itself in those sorrowful by-words, we have the school of true or noble picturesque; still distinguished from the school of pure beauty and sublimity, because, in its subjects, the pathos and sublimity are all *by the way*, as in Calais old spire,—not inherent, as in a lovely tree or mountain; while it is distinguished still more from the schools of the lower picturesque by its tender sympathy, and its refusal of all sources of pleasure inconsistent with the perfect nature of the thing to be studied.

- § 10. The reader will only be convinced of the broad scope of this law by careful thought, and comparison of picture with picture; but a single example will make the principle of it clear to him.

On the whole, the first master of the lower picturesque, among our living artists, is Clarkson Stanfield; his range of art being, indeed, limited by his pursuit of this character. I take, therefore, a windmill, forming the principal subject in his drawing of Brittany, near Dol (engraved in the *Coast Scenery*), Fig. 1. Plate 19., and beside it I place a windmill, which forms also the principal subject in Turner's study of the Lock, in the *Liber Studiorum*. At first sight I dare say the reader may like Stanfield's best; and there is, indeed, a great deal more in it to attract liking. Its roof is nearly as interesting in its ruggedness as a piece of the stony peak of a mountain, with a chalet built on its side; and it is exquisitely varied in swell and curve. Turner's roof, on the contrary, is a plain, ugly gable,—a windmill roof, and nothing more. Stanfield's sails are twisted into most effective wrecks, as beautiful as pine bridges over Alpine streams; only they do not look as if they had ever been serviceable windmill sails they are bent about in cross and awk-

ward ways, as if they were warped or cramped; and their timbers look heavier than necessary. Turner's sails have no beauty about them like that of Alpine bridges; but they have the exact switchy sway of the sail that is always straining against the wind; and the timbers form clearly the lightest possible framework for the canvass,—thus showing the essence of windmill sail. Then the clay wall of Stanfield's mill is as beautiful as a piece of chalk cliff, all worn into furrows by the rain, coated with mosses, and rooted to the ground by a heap of crumbled stone, embroidered with grass and creeping plants. But this is not a serviceable state for a windmill to be in. The essence of a windmill, as distinguished from all other mills, is, that it should turn round, and be a spinning thing, ready always to face the wind; as light, therefore, as possible, and as vibratory; so that it is in no wise good for it to approximate itself to the nature of chalk cliffs.

Now observe how completely Turner has chosen his mill so as to mark this great fact of windmill nature; how high he has set it; how slenderly he has supported it; how he has built it all of wood; how he has bent the lower planks so as to give the idea of the building lapping over the pivot on which it rests inside; and how, finally, he has insisted on the great leverage of the beam behind it, while Stanfield's lever looks more like a prop than a thing to turn the roof with. And he has done all this fearlessly, though none of these elements of form are pleasant ones in themselves, but tend, on the whole, to give a somewhat mean and spider-like look to the principal feature in his picture; and then, finally, because he could not get the windmill dissected, and show us the real heart and centre of the whole, behold, he has put a pair of old millstones, *lying outside*, at the bottom of it. These—the first cause and motive of all the fabric—laid at its foundation; and beside them the cart which is to fulfil the end of the fabric's being, and take home the sacks of flour.

- § 11. So far of what each painter chooses to draw. But do not fail also to consider the spirit in which it is drawn. Observe, that though all this ruin has befallen Stanfield's mill, Stanfield is not in the least sorry for it. On the contrary, he is delighted, and



evidently thinks it the most fortunate thing possible. The owner is ruined, doubtless, or dead; but his mill forms an admirable object in our view of Brittany. So far from being grieved about it, we will make it our principal light;—if it were a fruit-tree in spring-blossom, instead of a desolate mill, we could not make it whiter or brighter; we illumine our whole picture with it, and exult over its every rent as a special treasure and possession.

Not so Turner. *His* mill is still serviceable; but, for all that, he feels somewhat pensive about it. It is a poor property, and evidently the owner of it has enough to do to get his own bread out from between its stones. Moreover, there is a dim type of all melancholy human labour in it,—catching the free winds, and setting them to turn grindstones. It is poor work for the winds; better, indeed, than drowning sailors or tearing down forests, but not their proper work of marshalling the clouds, and bearing the wholesome rains to the place where they are ordered to fall, and fanning the flowers and leaves when they are faint with heat. Turning round a couple of stones, for the mere pulverization of human food, is not noble work for the winds. So, also, of all low labour to which one sets human souls. It is better than no labour; and, in a still higher degree, better than destructive wandering of imagination; but yet, that grinding in the darkness, for mere food's sake, must be melancholy work enough for many a living creature. All men have felt it so; and this grinding at the mill, whether it be breeze or soul that is set to it, we cannot much rejoice in. Turner has no joy of his mill. It shall be dark against the sky, yet proud, and on the hill-top; not ashamed of its labour, and brightened from beyond, the golden clouds stooping over it, and the calm summer sun going down behind, far away, to his rest.

- § 12. Now in all this observe how the higher condition of art (for I suppose the reader will feel, with me, that Turner's is the highest) depends upon largeness of sympathy. It is mainly because the one painter has communion of heart with his subject, and the other only casts his eyes upon it feelinglessly, that the work of the one is greater than that of the other. And, as we think farther over the matter, we shall see that this is indeed the eminent cause

of the difference between the lower picturesque and the higher. For, in a certain sense, the lower picturesque ideal is eminently a *heartless* one: the lover of it seems to go forth into the world in a temper as merciless as its rocks. All other men feel some regret at the sight of disorder and ruin. He alone delights in both; it matters not of what. Fallen cottage—desolate villa—deserted village—blasted heath—mouldering castle—to him, so that they do but show jagged angles of stone and timber, all are sights equally joyful. Poverty, and darkness, and guilt, bring in their several contributions to his treasury of pleasant thoughts. The shattered window, opening into black and ghastly rents of wall, the foul rag or straw wisp stopping them, the dangerous roof, decrepit floor and stair, ragged misery or wasting age of the inhabitants,—all these conduce, each in due measure, to the fulness of his satisfaction. What is it to him that the old man has passed his seventy years in helpless darkness and untaught waste of soul? The old man has at last accomplished his destiny, and filled the corner of a sketch, where something of an unshapely nature was wanting. What is it to him that the people fester in that feverish misery in the low quarter of the town, by the river? Nay, it is much to him. What else were they made for? what could they have done better? The black timbers, and the green water, and the soaking wrecks of boats, and the torn remnants of clothes hung out to dry in the sun;—truly the fever-struck creatures, whose lives have been given for the production of these materials of effect, have not died in vain.<sup>1</sup>

<sup>1</sup> I extract from my private diary a passage bearing somewhat on the matter in hand:—

“Amiens, 11th May, 18—. I had a happy walk here this afternoon, down among the branching currents of the Somme; it divides into five or six,—shallow, green, and not over-wholesome; some quite narrow and foul, running beneath clusters of fearful houses, reeling masses of rotten timber; and a few mere stumps of pollard willow sticking out of the banks of soft mud, only retained in shape of bank by being shored up with timbers; and boats like paper boats, nearly as thin at least, for the costermongers to paddle about in among the weeds, the water soaking through the lath bottoms, and floating the dead leaves from the vegetable-baskets with which they were loaded. Miserable little back yards, opening to the water, with steep stone steps down to it, and little platforms for the ducks; and separate duck staircases, composed of a sloping board with cross bits of wood leading to the ducks’ doors; and

§ 13. Yet, for all this, I do not say the lover of the lower picturesque is a monster in human form. He is by no means this, though truly we might at first think so, if we came across him unawares, and had not met with any such sort of person before. Generally speaking, he is kind-hearted, innocent of evil, but not broad in thought; somewhat selfish, and incapable of acute sympathy with others; gifted at the same time with strong artistic instincts and capacities for the enjoyment of varied form, and light, and shade, in pursuit of which enjoyment his life is passed, as the lives of other men are, for the most part, in the pursuit of what *they* also like,—be it honour, or money, or indolent pleasure,—very irrespective of the poor people living by the stagnant canal. And, in some sort, the hunter of the picturesque is better than many of these; inasmuch as he is simple-minded and capable of unostentatious and economical delights, which, if not very helpful to other people, are at all events utterly uninjurious, even to the victims or subjects of his picturesque fancies; while to many others his work is entertaining and useful. And, more than all this, even that delight which he *seems* to take in misery is not altogether unvirtuous. Through all his enjoyment there runs a certain undercurrent of tragical passion,—a real vein of human sympathy;—it lies at the root of all those strange morbid hauntings of his; a sad excitement, such as other people feel at a tragedy, only less in degree, just enough, indeed, to give a deeper tone to his pleasure, and to make him choose for his subject the broken stones of a cottage wall rather than of a roadside bank, the

sometimes a flower-pot or two on them, or even a flower,—one group, of wallflowers and geraniums, curiously vivid, being seen against the darkness of a dyer's back yard, who had been dying black all day, and all was black in his yard but the flowers, and they fiery and pure; the water by no means so, but still working its way steadily over the weeds, until it narrowed into a current strong enough to turn two or three mill-wheels, one working against the side of an old flamboyant Gothic church, whose richly traceried buttresses sloped into the filthy stream;—all exquisitely picturesque, and no less miserable. We delight in seeing the figures in these boats pushing them about the bits of blue water, in Prout's drawings; but as I looked to-day at the unhealthy face and melancholy mien of the man in the boat pushing his load of peats along the ditch, and of the people, men as well as women, who sat spinning gloomily at the cottage doors, I could not help feeling how many suffering persons must pay for my picturesque subject and happy walk."

picturesque beauty of form in each being supposed precisely the same: and, together with this slight tragical feeling, there is also a humble and romantic sympathy; a vague desire, in his own mind, to live in cottages rather than in palaces; a joy in humble things, a contentment and delight in makeshifts, a secret persuasion (in many respects a true one) that there is in these ruined cottages a happiness often quite as great as in kings' palaces, and a virtue and nearness to God infinitely greater and holier than can commonly be found in any other kind of place; so that the misery in which he exults is not, as he sees it, misery, but nobleness,—“poor, and sick in body, and beloved by the Gods.”<sup>1</sup> And thus, being nowise sure that these things can be mended at all, and very sure that he knows not how to mend them, and also that the strange pleasure he feels in them *must* have some good reason in the nature of things, he yields to his destiny, enjoys his dark canal without scruple, and mourns over every improvement in the town, and every movement made by its sanitary commissioners, as a miser would over a planned robbery of his chest; in all this being not only innocent, but even respectable and admirable, compared with the kind of person who has *no* pleasure in sights of this kind, but only in fair façades, trim gardens, and park palings, and who would thrust all poverty and misery out of his way, collecting it into back alleys, or sweeping it finally out of the world, so that the street might give wider play for his chariot wheels, and the breeze less offence to his nobility.

- § 14. Therefore, even the love for the lower picturesque ought to be cultivated with care, wherever it exists; not with any special view to artistic, but to merely humane, education. It will never really or seriously interfere with practical benevolence; on the contrary, it will constantly lead, if associated with other benevolent principles, to a truer sympathy with the poor, and better understanding of the right ways of helping them; and, in the present stage of civilization, it is the most important element of character, not directly moral, which can be cultivated in youth; since it is

<sup>1</sup> Epitaph on Epictetus.

mainly for the want of this feeling that we destroy so many ancient monuments, in order to erect "handsome" streets and shops instead, which might just as well have been erected elsewhere, and whose effect on our minds, so far as they have any, is to increase every disposition to frivolity, expense, and display.

These, and such other considerations not directly connected with our subject, I shall, perhaps, be able to press farther at the close of my work; meantime, we return to the immediate question, of the distinction between the lower and higher picturesque, and the artists who pursue them.

- § 15. It is evident, from what has been advanced, that there is no definite bar of separation between the two; but that the dignity of the picturesque increases from lower to higher, in exact proportion to the sympathy of the artist with his subject. And in like manner, his own greatness depends (other things being equal) on the extent of this sympathy. If he rest content with narrow enjoyment of outward forms, and light sensation of luxurious tragedy, and so goes on multiplying his sketches of mere picturesque material, he necessarily settles down into the ordinary "clever" artist, very good and respectable, maintaining himself by his sketching and painting in an honourable way, as by any other daily business, and in due time passing away from the world without having, on the whole, done much for it. Such has been the necessary, not very lamentable, destiny of a large number or men in these days, whose gifts urged them to the practice of art, but who possessing no breadth of mind, nor having met with masters capable of concentrating what gifts they had towards nobler use, almost perforce remained in their small picturesque circle; getting more and more narrowed in range of sympathy as they fell more and more into the habit of contemplating the one particular class of subjects that pleased them, and recomposing them by rules of art.

I need not give instances of this class, we have very few painters who belong to any other; I only pause for a moment to *except* from it a man too often confounded with the draughtsmen of the lower picturesque;—a very great man, who, though partly by chance, and partly by choice, limited in range of subject, pos-

essed for that subject the profoundest and noblest sympathy,—Samuel Prout. His renderings of the character of old buildings, such as that spire of Calais, are as perfect and as heartfelt as I can conceive possible; nor do I suppose that any one else will ever hereafter equal them.<sup>1</sup> His early works show that he possessed a grasp of mind which could have entered into almost any kind of landscape subject; that it was only chance—I do not know if altogether evil chance—which fettered him to stones; and that in reality he is to be numbered among the true masters of the nobler picturesque.

§ 16. Of these, also, the ranks rise in worthiness, according to their sympathy. In the noblest of them, that sympathy seems quite unlimited; they enter with their whole heart into all nature; their love of grace and beauty keeps them from delighting too much in shattered stones and stunted trees, their kindness and compassion from dwelling by choice on any kind of misery, their perfect humility from avoiding simplicity of subject when it comes in their way, and their grasp of the highest thoughts from seeking a lower sublimity in cottage walls and penthouse roofs. And, whether it be home of English village thatched with straw and walled with clay, or of Italian city vaulted with gold and roofed with marble; whether it be stagnant stream under ragged willow, or glancing fountain between arcades of laurel, all to them will bring equal power of happiness, and equal field for thought.

§ 17. Turner is the only artist who hitherto has furnished the entire *type* of this perfection. The attainment of it in all respects is, of course, impossible to man; but the complete type of such a mind has once been seen in him, and, I think, existed also in Tintoret; though, as far as I know, Tintoret has not left any work which indicates sympathy with the *humour* of the world. Paul Veronese, on the other hand, had sympathy with its humour, but not with its deepest tragedy or horror. Rubens wants the feeling for grace and mystery. And so, as we pass through the list of

<sup>1</sup> I believe when a thing is once *well done* in this world, it never can be done *over again*.

great painters, we shall find in each of them some local narrowness. Now, I do not, of course, mean to say that Turner has accomplished all to which his sympathy prompted him; necessarily, the very breadth of effort involved, in some directions, manifest failure; but he has shown, in casual incidents, and by-ways, a range of *feeling* which no other painter, as far as I know, can equal. He cannot, for instance, draw children at play as well as Mulready; but just glean out of his works the evidence of his sympathy with children;—look at the girl putting her bonnet on the dog, in the foreground of the Richmond, Yorkshire; the juvenile tricks and “marine dabblers” of the *Liber Studiorum*; the boys scrambling after their kites in the woods of the Greta and Buckfastleigh; and the notable and most pathetic drawing of the Kirkby Lonsdale churchyard, with the schoolboys making a fortress of their larger books on the tombstone, to bombard with the more projectile volumes; and passing from these to the intense horror and pathos of the *Rizpah*, consider for yourself whether there was ever any other painter who could strike such an octave. Whether there has been or not, in other walks of art, this power of sympathy is unquestionably in landscape unrivalled; and it will be one of our pleasantest future tasks to analyze in his various drawing the character it always gives; a character, indeed, more or less marked in all good work whatever, but to which, being preeminent in him, I shall always hereafter give the name of the “*Turnerian Picturesque*.”

## CHAPTER II.

## OF TURNERIAN TOPOGRAPHY.

- § 1. WE saw, in the course of the last chapter, with what kind of feeling an artist ought to regard the character of every object he undertakes to paint. The next question is, what objects he *ought* to undertake to paint; how far he should be influenced by his feelings in the choice of subjects; and how far he should permit himself to alter, or, in the usual art language, improve, nature. For it has already been stated (Vol. III. Chap. III. § 21.), that all great art must be inventive; that is to say, its subject must be produced by the imagination. If so, then great landscape art cannot be a mere copy of any given scene; and we have now to inquire what else than this it may be.
- § 2. If the reader will glance over that twenty-first, and the following three paragraphs of the same chapter, he will see that we there divided art generally into "historical" and "poetical," or the art of relating facts simply, and facts imaginatively. Now with respect to landscape, the historical art is simple topography, and the imaginative art is what I have in the heading of the present chapter called Turnerian topography, and must in the course of it endeavour to explain.

Observe, however, at the outset, that, touching the duty or fitness of altering nature at all, the quarrels which have so wofully divided the world of art are caused only by want of understanding this simplest of all canons,—“It is always wrong to draw what you don't see.” This law is inviolable. But then, some people see only things that exist, and others see things that do not exist, or do not exist apparently. And if they really *see*



these non-apparent things, they are quite right to draw them; the only harm is when people try to draw non-apparent things, who *don't* see them, but think they can calculate or compose into existence what is to them for evermore invisible. If some people really see angels where others see only empty space, let them paint the angels; only let not anybody else think *they* can paint an angel too, on any calculated principles of the angelic.

- § 3. If, therefore, when we go to a place, we see nothing else than is there, we are to paint nothing else, and to remain pure topographical or historical landscape painters. If, going to the place, we see something quite different from what is there, then we are to paint that—nay, we *must* paint that, whether we will or not; it being, for us, the only reality we can get at. But let us beware of pretending to see this unreality if we do not.

The simple observance of this rule would put an end to nearly all disputes, and keep a large number of men in healthy work, who now totally waste their lives; so that the most important question that an artist can possibly have to determine for himself, is whether he has invention or not. And this he can ascertain with ease. If visions of unreal things present themselves to him with or without his own will, praying to be painted, quite ungovernable in their coming or going,—neither to be summoned if they do not choose to come, nor banished if they do,—he has invention. If, on the contrary, he only sees the commonly visible facts; and, should he not like them, and want to alter them, finds that he must think of a *rule* whereby to do so, he has no invention. All the rules in the world will do him no good; and if he tries to draw anything else than those materially visible facts, he will pass his whole life in uselessness, and produce nothing but scientific absurdities.

- § 4. Let him take his part at once, boldly, and be content. Pure history and pure topography are most precious things; in many cases more useful to the human race than high imaginative work; and assuredly it is intended that a large majority of all who are employed in art should never aim at anything higher. It is *only* vanity, never love, nor any other noble feeling, which prompts men to desert their allegiance to the simple truth, in vain pur-

suit of the imaginative truth which has been appointed to be for evermore sealed to them.

Nor let it be supposed that artists who possess minor degrees of imaginative gift need be embarrassed by the doubtful sense of their own powers. In general, when the imagination is at all noble, it is irresistible, and therefore those who can at all resist it *ought* to resist it. Be a plain topographer if you possibly can; if Nature meant you to be anything else, she will force you to it; but never try to be a prophet; go on quietly with your hard camp-work, and the spirit will come to you in the camp, as it did to Eldad and Medad, if you are appointed to have it; but try above all things to be quickly perceptive of the noble spirit in others, and to discern in an instant between its true utterance and the diseased mimicries of it. In a general way, remember it is a far better thing to find out other great men, than to become one yourself: for you can but become *one* at best, but you may bring others to light in numbers.

- § 5. We have, therefore, to inquire what kind of changes these are, which must be wrought by the imaginative painter on landscape, and by whom they have been thus nobly wrought. First, for the better comfort of the non-imaginative painter, be it observed, that it is not possible to find a landscape, which if painted precisely as it is, will not make an impressive picture. No one knows, till he has tried, what strange beauty and subtle composition is prepared to his hand by Nature, wherever she is left to herself; and what deep feeling may be found in many of the most homely scenes, even where man has interfered with those wild ways of hers. But, beyond this, let him note that though historical topography forbids *alteration*, it neither forbids sentiment nor choice. So far from doing this, the proper choice of subject<sup>1</sup> is an absolute duty to the topo-

<sup>1</sup> Observe, what was said in the second volume respecting the spirit of choice as evil, refers only to young students, and to that choice which assumes that any common subject is not good enough, nor interesting enough, to be studied. But, though all is good for study, and all is beautiful, some is better than the rest for the help and pleasure of others; and this it is our duty always to choose, if we have opportunity, being quite happy with what is within our reach, if we have not.

graphical painter: he should first take care that it is a subject intensely pleasing to himself, else he will never paint it well; and then also, that it shall be one in some sort pleasurable to the general public, else it is not worth painting at all; and lastly, take care that it be instructive, as well as pleasurable to the public, else it is not worth painting with care. I should particularly insist at present on this careful choice of subject, because the Pre-Raphaelites, taken as a body, have been culpably negligent in this respect, not in humble respect to Nature, but in morbid indulgence of their own impressions. They happen to find their fancies caught by a bit of an oak hedge, or the weeds at the side of a duck-pond, because, perhaps, they remind them of a stanza of Tennyson; and forthwith they sit down to sacrifice the most consummate skill, two or three months of the best summer time available for out-door work (equivalent to some seventieth or sixtieth of all their lives), and nearly all their credit with the public, to this duck-pond delineation. Now it is indeed quite right that they should see much to be loved in the hedge, nor less in the ditch; but it is utterly and inexcusably wrong that they should neglect the nobler scenery which is full of majestic interest, or enchanted by historical association; so that, as things go at present, we have all the commonalty, that may be seen whenever we choose, painted properly; but all of lovely and wonderful, which we cannot see but at rare intervals, painted vilely: the castles of the Rhine and Rhone made vignettes of for the annuals; and the nettles and mushrooms, which were prepared by nature eminently for nettle porridge and fish sauce, immortalized by art as reverently as if we were Egyptians, and they deities.

- § 6. Generally speaking, therefore, the duty of every painter at present, who has not much invention, is to take subjects of which the portraiture will be precious in after times: views of our abbeys and cathedrals; distant views of cities, if possible chosen from some spot in itself notable by association; perfect studies of the battle fields of Europe, of all houses of celebrated men, and places they loved, and, of course, of the most lovely natural scenery. And, in doing all this, it should

be understood, primarily, whether the picture is topographical or not: if topographical, then not a line is to be altered, not a stick nor stone removed, not a colour deepened, not a form improved; the picture is to be, as far as possible, the reflection of the place in a mirror; and the artist to consider himself only as a sensitive and skilful reflector, taking care that no false impression is conveyed by any error on his part which he might have avoided; so that it may be for ever afterwards in the power of all men to lean on his work with absolute trust, and to say: "So it was:—on such a day of June or July of such a year, such a place looked like this; those weeds were growing there, so tall and no taller; those stones were lying there, so many and no more; that tower so rose against the sky, and that shadow so slept upon the street."

- § 7. Nor let it be supposed that the doing of this would ever become mechanical, or be found too easy, or exclude sentiment; As for its being easy, those only think so who never tried it; composition being, in fact, infinitely easier to a man who *can* compose, than imitation of this high kind to even the most able imitator; nor would it exclude sentiment, for, however sincerely we may try to paint all we see, this *cannot*, as often aforesaid, be ever done: all that is possible is a certain selection, and more or less wilful assertion, of one fact in preference to another; which selection ought always to be made under the influence of sentiment. Nor will such topography involve an entire submission to ugly accidents interfering with the impressiveness of the scene. I hope, as art is better understood, that our painters will get into the habit of accompanying all their works with a written statement of their own reasons for painting them, and the circumstances under which they were done; and, if in this written document they state the omissions they have made, they may make as many as they think proper. For instance, it is not possible now to obtain a view of the head of the Lake of Geneva without including the "Hôtel Biron"—an establishment looking like a large cotton factory—just above the Castle of Chillon. This building ought always to be omitted, and the reason for the omission stated. So the beauty of the whole town of Lucerne, as

seen from the lake, is destroyed by the large new hotel for the English, which ought, in like manner, to be ignored, and the houses behind it drawn as if it were transparent.

- § 8. But if a painter has inventive power he is to treat his subject in a totally different way; giving not the actual facts of it, but the impression it made on his mind.

And now, once for all, let it be clearly understood, that an "impression on the mind" does not mean a piece of manufacture. The way in which most artists proceed to "invent," as they call it, a picture, is this: they choose their subject, for the most part, well, with a sufficient quantity of towers, mountains, ruined cottages, and other materials, to be generally interesting; then they fix on some object for a principal light; behind this they put a dark cloud, or, in front of it, a dark piece of foreground; then they repeat this light somewhere else in a less degree, and connect the two lights together by some intermediate ones. If they find any part of the foreground uninteresting, they put a group of figures into it; if any part of the distance, they put something there from some other sketch; and proceed to inferior detail in the same manner, taking care always to put white stones near black ones, and purple colours near yellow ones, and angular forms near round ones;—all this being as simply a matter of recipe and practice as cookery; like that, not by any means a thing easily done well, but still having no reference whatever to "impressions on the mind."

- § 9. But the artist who has real invention sets to work in a totally different way. First, he receives a true impression from the place itself, and takes care to keep hold of that as his chief good; indeed, he needs no care in the matter, for the distinction of his mind from that of others consists in his instantly receiving such sensations strongly, and being unable to lose them; and then he sets himself as far as possible to reproduce that impression on the mind of the spectator of his picture.

Now, observe, this impression on the mind never results from the mere piece of scenery which can be included within the limits of the picture. It depends on the temper into which the mind has been brought, both by all the landscape round, and by

what has been seen previously in the course of the day; so that no particular spot upon which the painter's glance may at any moment fall is then to him what, if seen by itself, it will be to the spectator far away; nor is it what it would be, even to that spectator, if he had come to the reality through the steps which Nature has appointed to be the preparation for it, instead of seeing it isolated on an exhibition wall. For instance, on the descent of the St. Gothard, towards Italy, just after passing through the narrow gorge above Faido, the road emerges into a little breadth of valley, which is entirely filled by fallen stones and debris, partly disgorged by the Ticino as it leaps out of the narrower chasm, and partly brought down by winter avalanches from a loose and decomposing mass of mountain on the left. Beyond this first promontory is seen a considerably higher range, but not an imposing one, which rises above the village of Faido. The etching, Plate 20., is a topographical outline of the scene, with the actual blocks of rock which happened to be lying in the bed of the Ticino at the spot from which I chose to draw it. The masses of loose debris (which, for any permanent purpose, I had no need to draw, as their arrangement changes at every flood) I have not drawn, but only those features of the landscape which happen to be of some continual importance. Of which note, first, that the little three-windowed building on the left is the remnant of a gallery built to protect the road, which once went on that side, from the avalanches and stones that come down the "couloir"<sup>1</sup> in the rock above. It is only a ruin, the greater part having been by said avalanches swept away, and the old road, of which a remnant is also seen on the extreme left, abandoned, and carried now along the hill side on the right, partly sustained on rough stone arches, and winding down, as seen in the sketch, to a weak wooden bridge, which enables it to recover its old track past the gallery. It seems formerly (but since the destruction of the gallery) to have gone about a mile farther down the river on the right bank, and then to have been car-

<sup>1</sup> "Couloir" is a good untranslatable Savoyard word, for a place down which stones and water fall in storms; it is perhaps deserving of naturalization.





20. Pass of Fudo. (1<sup>st</sup> Simple Topography.)





21. Pass of Naido (2441 meters elevation).



ried across by a longer wooden bridge, of which only the two buttments are seen in the sketch, the rest having been swept away by the Ticino, and the new bridge erected near the spectator.

§ 10. There is nothing in this scene, taken by itself, particularly interesting or impressive. The mountains are not elevated, nor particularly fine in form, and the heaps of stones which encumber the Ticino present nothing notable to the ordinary eye. But, in reality, the place is approached through one of the narrowest and most sublime ravines in the Alps, and after the traveller during the early part of the day has been familiarized with the aspect of the highest peaks of the Mont St. Gothard. Hence it speaks quite another language to him from that in which it would address itself to an unprepared spectator: the confused stones, which by themselves would be almost without any claim upon his thoughts, become exponents of the fury of the river by which he has journeyed all day long; the defile beyond, not in itself narrow or terrible, is regarded nevertheless with awe, because it is imagined to resemble the gorge that has just been traversed above; and, although no very elevated mountains immediately overhang it, the scene is felt to belong to, and arise in its essential characters out of, the strength of those mightier mountains in the unseen north.

§ 11. Any topographical delineation of the facts, therefore, must be wholly incapable of arousing in the mind of the beholder those sensations which would be caused by the facts themselves, seen in their natural relations to others. And the aim of the great inventive landscape painter must be to give the far higher and deeper truth of mental vision, rather than that of the physical facts, and to reach a representation which, though it may be totally useless to engineers or geographers, and, when tried by rule and measure, totally unlike the place, shall yet be capable of producing on the far-away beholder's mind precisely the impression which the reality would have produced, and putting his heart into the same state in which it would have been, had he verily descended into the valley from the gorges of Airolo.

§ 12. Now observe; if in his attempt to do this the artist does not

understand the sacredness of the truth of *Impression*, and supposes that, once quitting hold of his first thought, he may by Philosophy compose something prettier than he saw, and mightier than he felt, it is all over with him. Every such attempt at composition will be utterly abortive, and end in something that is neither true nor fanciful; something geographically useless, and intellectually absurd.

But if, holding fast his first thought, he finds other ideas insensibly gathering to it, and, whether he will or not, modifying it into something which is not so much the image of the place itself, as the spirit of the place, let him yield to such fancies, and follow them wherever they lead. For, though error on this side is very rare among us in these days, it is possible to check these finer thoughts by mathematical accuracies, so as materially to impair the imaginative faculty. I shall be able to explain this better after we have traced the actual operation of Turner's mind on the scene under discussion.

- § 13. Turner was always from his youth fond of stones (we shall see presently why). Whether large or small, loose or embedded, hewn into cubes or worn into boulders, he loved them as much as William Hunt loves pineapples and plums. So that this great litter of fallen stones, which to any one else would have been simply disagreeable, was to Turner much the same as if the whole valley had been filled with plums and pineapples, and delighted him exceedingly, much more than even the gorge of Dazio Grande just above. But that gorge had its effect upon him also, and was still not well out of his head when the diligence stopped at the bottom of the hill, just at that turn of the road on the right of the bridge; which favourable opportunity Turner seized to make what he called a "memorandum" of the place, composed of a few pencil scratches on a bit of thin paper, that would roll up with others of the sort and go into his pocket afterwards. These pencil scratches he put a few blots of colour upon (I suppose at Bellinzona the same evening, certainly *not* upon the spot), and showed me this blotted sketch when he came home. I asked him to make me a drawing of it, which he did, and casually told me afterwards (a rare thing for him to do)

that he liked the drawing he had made. Of this drawing I have etched a reduced outline in Plate 21.

- § 14. In which, primarily, observe that the whole place is altered in scale, and brought up to the general majesty of the higher forms of the Alps. It will be seen that, in my topographical sketch, there are a few trees rooted in the rock on this side of the gallery, showing, by comparison, that it is not above four or five hundred feet high. These trees Turner cuts away, and gives the rock a height of about a thousand feet, so as to imply more power and danger in the avalanche coming down the couloir.

Next, he raises, in a still greater degree, all the mountains beyond, putting three or four ranges instead of one, but uniting them into a single massy bank at their base, which he makes overhang the valley, and thus reduces it nearly to such a chasm as that which he had just passed through above, so as to unite the expression of this ravine with that of the stony valley. The few trees, in the hollow of the glen, he feels to be contrary in spirit to the stones, and fells them, as he did the others; so also he feels the bridge in the foreground, by its slenderness, to contradict the aspect of violence in the torrent; he thinks the torrent and avalanches should have it all their own way hereabouts; so he strikes down the nearer bridge, and restores the one farther off, where the force of the stream may be supposed less. Next, the bit of road on the right, above the bank, is not built on a wall, nor on arches high enough to give the idea of an Alpine road in general; so he makes the arches taller, and the bank steeper, introducing, as we shall see presently, a reminiscence from the upper part of the pass.

- § 15. I say, he "*thinks*" this, and "*introduces*" that. But, strictly speaking, he does not think at all. If he thought, he would instantly go wrong; it is only the clumsy and uninventive artist who thinks. All these changes come into his head involuntarily; an entirely imperative dream, crying, "thus it must be," has taken possession of him; he can see, and do, no otherwise than as the dream directs.

This is especially to be remembered with respect to the next incident—the introduction of figures. Most persons to whom

I have shown the drawing, and who feel its general character, regret that there is any living thing in it; they say it destroys the majesty of its desolation. But the dream said not so to Turner. The dream insisted particularly upon the great fact of its having come by the road. The torrent was wild, the stones were wonderful; but the most wonderful thing of all was how we ourselves, the dream and I, ever got here. By our feet we could not—by the clouds we could not—by any ivory gates we could not—in no other wise could we have come than by the coach road. One of the great elements of sensation, all the day long, has been that extraordinary road, and its goings on, and gettings about; here, under avalanches of stones, and among insanities of torrents, and overhangings of precipices, much tormented and driven to all manner of makeshifts and coils to this side and the other, still the marvellous road persists in going on, and that so smoothly and safely, that it is not merely great diligences, going in a caravannish manner, with whole teams of horses, that can traverse it, but little postchaises with small post-boys, and a pair of ponies. And the dream declared that the full essence and soul of the scene, and consummation of all the wonderfulness of the torrents and Alps, lay in a postchaise, with small ponies and post-boy, which accordingly it insisted upon Turner's inserting, whether he liked it or not, at the turn of the road.

- § 16. Now, it will be observed by any one familiar with ordinary principles of arrangement of form (on which principles I shall insist at length in another place), that while the dream introduces these changes bearing on the expression of the scene, it is also introducing other changes, which appear to be made more or less in compliance with received rules of composition<sup>1</sup>, rendering the

<sup>1</sup> I have just said, § 12., that if, *quitting hold* of this original impression, the artist tries to compose something prettier than he saw, it is all over with him; but, retaining the first impression, he will, nevertheless, if he has invention, instinctively modify many lines and parts of it—possibly all parts of it—for the better; sometimes making them individually more pictorial, sometimes preventing them from interfering with each other's beauty. For almost all natural landscapes are redundant treasures of more or less confused beauty, out of which the human instinct of invention can by just choice arrange, not a better treasure, but one more fitted to human sight and emotion,—infinitely narrower, infinitely less lovely in detail, but having this

masses broader, the lines more continuous, and the curves more graceful. But the curious part of the business is, that these changes seem not so much to be wrought by imagining an entirely new condition of any feature, as by *remembering* something which will fit better in that place. For instance, Turner felt the bank on the right ought to be made more solid and rocky, in order to suggest firmer resistance to the stream, and he turns it, as will be seen by comparing the etchings, into a kind of rock buttress to the wall, instead of a mere bank. Now, the buttress into which he turns it is very nearly a facsimile of one which he had drawn on that very St. Gothard road, far above, at the Devil's Bridge, at least thirty years before, and



Fig. 1.

which he had himself etched and engraved for the *Liber Studdiorum*, although the plate was never published. Fig. 1. is a copy of the bit of the etching in question. Note how the wall winds over it, and observe especially the peculiar depression in the middle of its surface, and compare it in those parts generally with the features introduced in the later composition.

great virtue, that there shall be absolutely nothing which does not contribute to the effect of the whole; whereas in the natural landscape there is a redundancy which impresses only as redundancy, and often an occurrence of marring features; not of ugliness only, but of ugliness in the *wrong place*. Ugliness has its proper virtue and use; but ugliness occurring at the wrong time (as if the negro servant, instead of standing behind the king, in Tintoret's picture, were to thrust his head in front of the noble features of his master) is justly to be disliked and withdrawn.

"Why, this," exclaims the idealist, "is what I have always been saying, and you have always been denying." No; I never denied this. But I denied that painters in general, when they spoke of improving Nature, knew what Nature was. Observe: before they dare so much as to *dream* of arranging her, they must be able to paint her

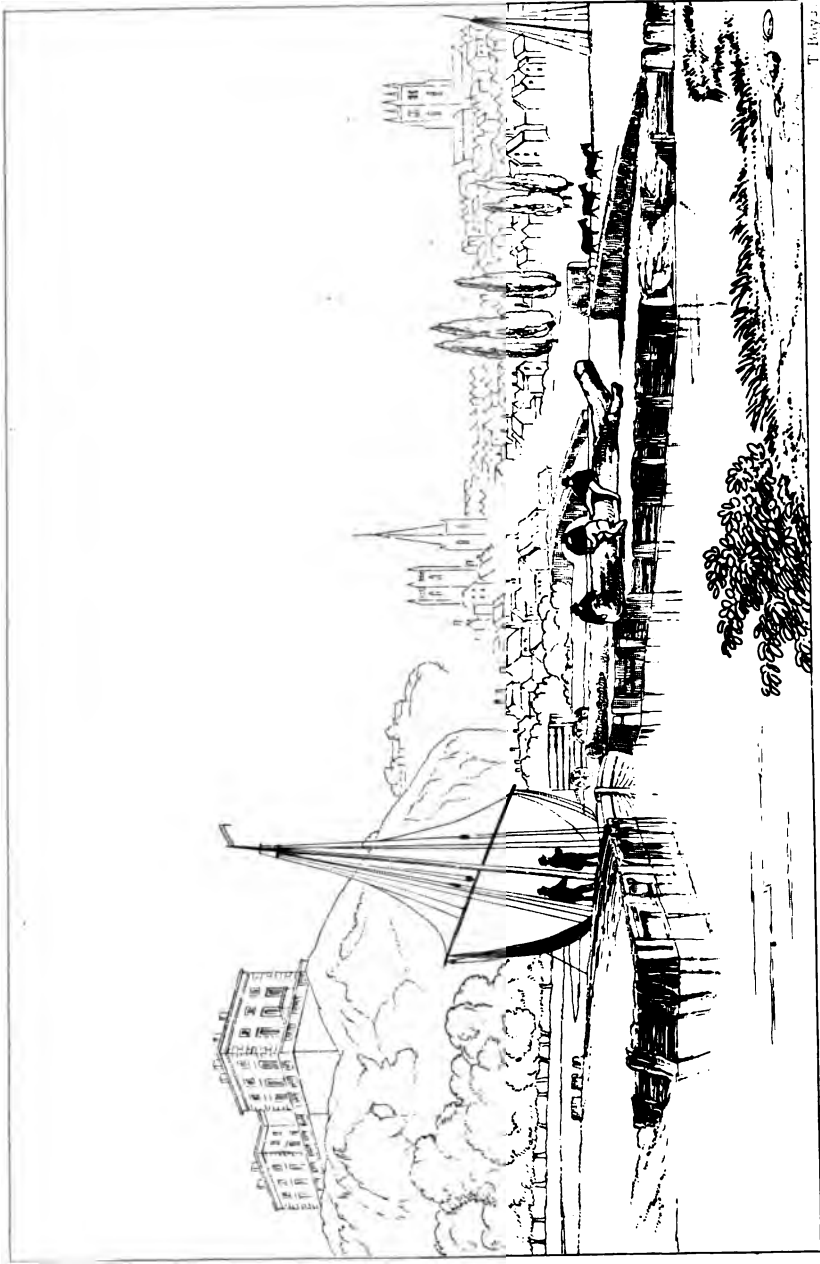
Of course, this might be set down as a mere chance coincidence, but for the frequency of the cases in which Turner can be shown to have done the same thing, and to have introduced, after a lapse of many years, memories of something which, however apparently small or unimportant, had struck him in his earlier studies. These instances, when I can detect them, I shall point out as I go on engraving his works; and I think they are numerous enough to induce a doubt whether Turner's composition was not universally an arrangement of remembrances, summoned just as they were wanted, and set each in its fittest place. It is this very character which appears to me to mark it as so distinctly an act of dream-vision; for in a dream there is just this kind of confused remembrance of the forms of things which we have seen long ago, associated by new and strange laws. That common dreams are grotesque and disorderly, and Turner's dream natural and orderly, does not, to my thinking, involve any necessary difference in the real species of act of mind. I think I shall be able to show, in the course of the following pages, or elsewhere, that whenever Turner really tried to *compose*, and made modifications of his subjects on principle, he did wrong, and spoiled them; and that he only did right in a kind of passive obedience to his first vision, that vision being composed primarily of the strong memory of the place itself which he had to draw; and secondarily, of memories of other places (whether recognized as such by himself or not I cannot tell), associated, in a harmonious and helpful way, with the new central thought.

- § 17. The kind of mental chemistry by which the dream summons and associates its materials, I have already endeavoured, not to explain, for it is utterly inexplicable, but to illustrate, by a well ascertained though equally inexplicable fact in common chemistry. That illustration (§ 8. of chapter on Imaginative Association, Vol. II.) I see more and more ground to think correct. How far

as she is; nor will the most skilful arrangement ever atone for the slightest wilful failure in truth of representation: and I am continually declaiming against arrangement, not because arrangement is wrong, but because our present painters have for the most part nothing to arrange. They cannot so much as paint a weed or a post accurately; and yet they pretend to improve the forests and mountains.



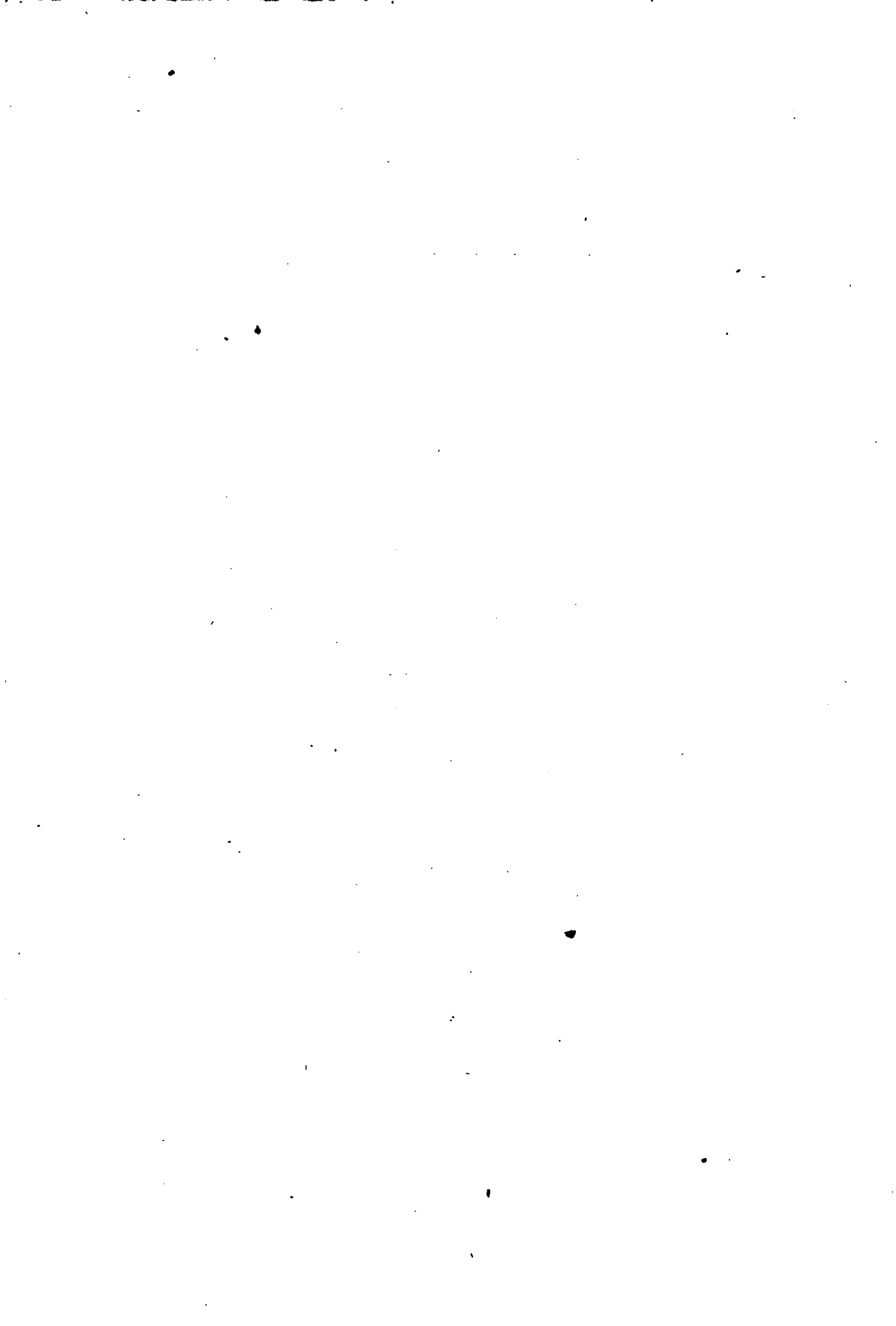




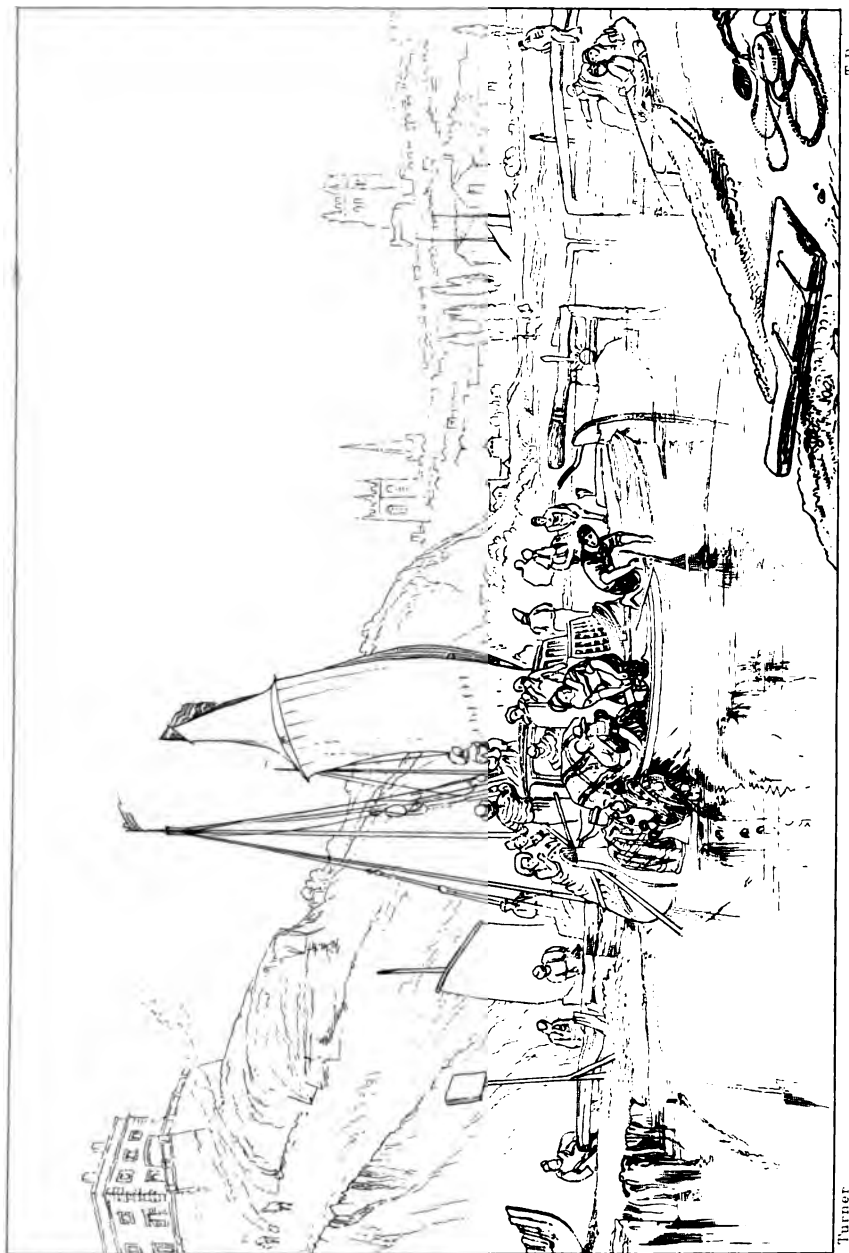
Turner

T. 1892

22. Turner's Earliest "Nottingham."







23. Turner's Latest "Nottingham."



I could show that it held with all great inventors, I know not, but with all those whom I have carefully studied (Dante, Scott, Turner, and Tintoret) it seems to me to hold absolutely; their imagination consisting, not in a voluntary production of new images, but an involuntary remembrance, exactly at the right moment, of something they had actually seen.

Imagine all that any of these men had seen or heard in the whole course of their lives, laid up accurately in their memories as in vast storehouses, extending, with the poets, even to the slightest intonations of syllables heard in the beginning of their lives, and, with the painters, down to minute folds of drapery, and shapes of leaves or stones; and over all this unindexed and immeasurable mass of treasure, the imagination brooding and wandering, but dream-gifted, so as to summon at any moment exactly such groups of ideas as shall justly fit each other: this I conceive to be the real nature of the imaginative mind, and this, I believe, it would be oftener explained to us as being, by the men themselves who possess it, but that they have no idea what the state of other persons' minds is in comparison; they suppose every one remembers all that he has seen in the same way, and do not understand how it happens that they alone can produce good drawings or great thoughts.

§ 18. Whether this be the case with all inventors or not, it was assuredly the case with Turner to such an extent that he seems never either to have lost, or cared to disturb, the impression made upon him by any scene,—even in his earliest youth. He never seems to have gone back to a place to look at it again, but, as he gained power, to have painted and repainted it as first seen, associating with it certain new thoughts or new knowledge, but never shaking the central pillar of the old image. Several instances of this have been already given in my pamphlet on Pre-Raphaelitism; others will be noted in the course of our investigation of his works; one, merely for the sake of illustration, I will give here.

§ 19. Plate 22. is an outline of a drawing of the town and castle of Nottingham, made by Turner for Walker's Itinerant, and engraved in that work. The engraving (from which this out-

line was made, as I could not discover the drawing itself) was published on the 28th of February, 1795, a period at which Turner was still working in a very childish way; and the whole design of this plate is curiously stiff and commonplace. Note, especially, the two formal little figures under the sail.

In the year 1833, an engraving of Nottingham, from a drawing by Turner, was published by Moon, Boys, and Graves, in the England and Wales series. Turner certainly made none of the drawings for that series long before they were wanted; and if, therefore, we suppose the drawing to have been made so much as three years before the publication of the plate, it will be setting the date of it as far back as is in the slightest degree probable. We may assume, therefore (and the conclusion is sufficiently established, also, by the style of the execution), that there was an interval of at least thirty-five years between the making of those two drawings,—thirty-five years, in the course of which Turner had become, from an unpractised and feeble draughtsman, the most accomplished artist of his age, and had entirely changed his methods of work and his habits of feeling.

§ 20. On the page opposite to the etching of the first, I have given an etching of the last Nottingham. The one will be found to be merely the amplification and adornment of the other. *Every incident* is preserved; even the men employed about the log of wood are there, only now removed far away (beyond the lock on the right, between it and the town), and so lost in mist that, though made out by colour in the drawing, they cannot be made clear in the outline etching. The canal bridge and even the stiff mast are both retained; only another boat is added, and the sail dropped upon the higher mast is hoisted on the lower one; and the castle, to get rid of its formality, is moved a little to the left, so as to hide one side. But, evidently, no new sketch has been made. The painter has returned affectionately to his boyish impression, and worked it out with his manly power.

§ 21. How far this manly power itself acted merely in the accumulation of memories, remains, as I said, a question undetermined; but at all events, Turner's mind is not more, in my estimation, distinguished above others by its demonstrably arranging and



ruling faculties, than by its demonstrably retentive and submissive faculties; and the longer I investigate it, the more this tenderness of perception and grasp of memory seem to me the root of its greatness. So that I am more and more convinced of what I had to state respecting the imagination, now many years ago, viz., that its true force lies in its marvellous insight and foresight, —that it is, instead of a false and deceptive faculty, exactly the most accurate and truth-telling faculty which the human mind possesses; and all the more truth-telling, because, in *its* work, the vanity and individualism of the man himself are crushed, and he becomes a mere instrument or mirror, used by a higher power for the reflection to others of a truth which no effort of his could ever have ascertained; so that all mathematical, and arithmetical, and generally scientific truth, is, in comparison, truth of the husk and surface, hard and shallow; and only the imaginative truth is precious. Hence, whenever we want to know what are the chief facts of any case, it is better not to go to political economists, nor to mathematicians, but to the great poets; for I find they always see more of the matter than any one else: and in like manner those who want to know the real facts of the world's outside aspect, will find that they cannot trust maps, nor charts, nor any manner of mensuration; the most important facts being always quite immeasurable, and that (with only some occasional and trifling inconvenience, if they form too definite anticipations as to the position of a bridge here, or a road there) the Turnerian topography is the only one to be trusted.

- § 22. One or two important corollaries may be drawn from these principles, respecting the kind of fidelity which is to be exacted from men who have no imaginative power. It has been stated, over and over again, that it is not *possible* to draw the whole of nature, as in a mirror. Certain omissions must be made, and certain conventionalities admitted, in all art. Now it ought to be the instinctive affection of each painter which guides him to the omissions he is to make, or signs he is to use; and his choice of this or the other fact for representation, his insistence upon this or the other character in his subject, as that which to him is impressive, constitutes, when it is earnest and simple, part of the

value of his work. This is the only inspiration he is capable of, but it is a kind of inspiration still; and although he may not have the memory or the associative power which would enable him to compose a subject in the Turnerian manner, he may have certain *affections*, perfectly expressible in his work, and of which he ought to allow the influence to be seen.<sup>1</sup>

- § 23. And this may especially be permitted in rapid sketching of effects or scenes which, either in their speedy passing away, or for want of time, it is impossible to draw faithfully. Generally, if leisure permit, the detailed drawing of the object will be grander than any "impression on the mind" of an unimaginative person; but if leisure do not permit, a rapid sketch, marking forcibly the points that strike him, may often have considerable interest in its way. The other day I sketched the towers of the Swiss Fribourg hastily from the Hôtel de Zähringen. It was a misty morning with broken sunshine, and the towers were seen by flickering light through broken clouds,—dark blue mist filling the hollow of the valley behind them. I have engraved the sketch on the opposite page, adding a few details, and exaggerating the exaggerations; for in drawing from nature, even at speed, I am not in the habit of exaggerating enough to illustrate what I mean. The next day, on a clear and calm forenoon, I daguerreotyped the towers, with the result given on the next Plate (25. Fig. 2.); and this unexaggerated statement, with its details properly painted, would not only be the more right, but infinitely the grander of the two. But the first sketch nevertheless conveys, in some respects, a truer idea of Fribourg than the other, and has, therefore, a certain use. For instance, the wall going up behind the main tower is seen in my drawing to bend very distinctly, following the different slopes of the hill. In the daguerreotype this bend is hardly perceptible.

<sup>1</sup> For instance, even in my topographical etching, Plate 20., I have given only a few lines out of the thousands which existed in the scene. Those lines are what I considered the leading ones. Another person might have thought other lines the leading ones, and his representation might be equally true as far as it went; but which of our representations went farthest would depend on our relative degrees of knowledge and feeling about hills.







114 The Towers of London







1



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7



J. H. LeKew

J. H. LeKew







And yet the notablest thing in the town of Fribourg is, that all its walls have got flexible spines, and creep up and down the precipices more in the manner of cats than walls; and there is a general sense of height, strength, and grace, about its belts of tower and rampart, which clings even to every separate and less graceful piece of them when seen on the spot; so that the hasty sketch, expressing this, has a certain veracity wanting altogether in the daguerreotype.

Nay, sometimes, even in the most accurate and finished topography, a slight exaggeration may be permitted; for many of the most important facts in nature are so subtle, that they *must* be slightly exaggerated, in order to be made noticeable when they are translated into the comparatively clumsy lines of even the best drawing<sup>1</sup>, and removed from the associating circumstances which enhanced their influence, or directed attention to them, in nature.

- § 24. Still, in all these cases, the more unconscious the draughtsman is of the changes he is making, the better. Love will then do its own proper work; and the only true test of good or bad is, ultimately, strength of affection. For it does not matter with what wise purposes, or on what wise principles, the thing is drawn; if it be not drawn for love of it, it will never be right; and if it *be* drawn for love of it, it will never be wrong—love's misrepresentation being truer than the most mathematical presentation. And although all the reasonings about right and wrong, through which we have been led in this chapter, could never be brought to bear on the work at the moment of doing it, yet this test of right holds always;—if the artist is in anywise modifying or methodizing to exhibit himself and his dexterity, his work will, in that precise degree, be abortive; and if he is working with hearty love of the place, earnest desire to be faithful to it, and yet an open heart for every fancy that Heaven sends him, in that precise degree his work will be great and good.

<sup>1</sup> Or the best photograph. The question of the exact relation of value between photography and good topographical drawing, I hope to examine in another place.

## CHAPTER III.

## OF TURNERIAN LIGHT.

§ 1. HAVING in the preceding chapter seen the grounds on which to explain and justify Turner's *choice* of facts, we proceed to examine finally those modes of *representing* them introduced by him;—modes so utterly at variance with the received doctrines on the subject of art, as to cause his works to be regarded with contempt, or severe blame, by all reputed judges, at the period of their first appearance. And, chiefly, I must confirm and farther illustrate the general statements made respecting light and shade in the chapters on Truth of Tone<sup>1</sup>, and on Infinity<sup>2</sup>, deduced from the great fact (§ 5. chapter on Truth of Tone) that “nature surpasses us in power of obtaining light as much as the sun surpasses white paper.” I found that this part of the book was not well understood, because people in general have no idea how much the sun *does* surpass white paper. In order to know this practically, let the reader take a piece of pure white drawing-paper, and place it in the position in which a drawing is usually seen. This is, properly, upright (all drawings being supposed to be made on vertical planes), as a picture is seen on a room wall. Also, the usual place in which paintings or drawings are seen is at some distance from a window, with a gentle side light falling upon them, front lights being unfavourable to nearly all drawing. Therefore the highest light an artist can ordinarily command for his work is that of white paint, or paper, under a gentle side

<sup>1</sup> Part II. Sec. II. Chap. I.<sup>2</sup> Part III. Sec. I. Chap. V.

light.<sup>1</sup> But if we wished to get as much light as possible, and to place the artist under the most favourable circumstances, we should take the drawing near the window. Put therefore your

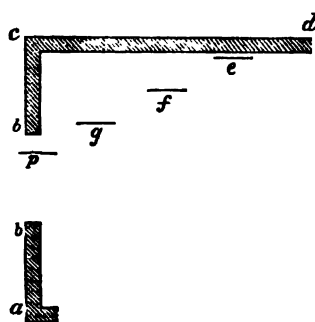


Fig. 2.

white paper upright, and take it to the window. Let  $a c$ ,  $c d$ , be two sides of your room, with a window at  $b b$ . Under ordinary circumstances your picture would be hung at  $e$ , or in some such position on the wall  $c d$ . First, therefore, put your paper upright at  $e$ , and then bring it gradually to the window, in the successive positions  $f$ ,  $g$ , and (opening the window) finally at  $p$ . You will

notice that as you come nearer the window the light gradually *increases* on the paper; so that in the position at  $p$  it is far better lighted than it was at  $e$ . If, however, the sun actually falls upon it at  $p$ , the experiment is unfair, for the picture is not meant to be seen in sunshine, and your object is to compare pure white paper, as ordinarily used, *with* sunshine. So either take a time when the sun does not shine at all, or does not shine in at the window where the experiment is to be tried; or else keep the paper so far within the window that the sun may not touch it. Then the experiment is perfectly fair, and you will find that you have the paper at  $p$  in full, serene, pictorial light, of the best kind, and highest attainable power.

- § 2. Now, leaning a little over the window sill, bring the edge of the paper at  $p$  against the sky, rather low down on the horizon (I suppose you choose a fine day for the experiment, that the sun is high, and the sky clear blue, down to the horizon). The moment you bring your white paper against the sky you will be startled to find this bright white paper suddenly appear in shade. You will draw it back, thinking you have changed its position. But no; the paper is not in shade. It is as bright as ever it was; brighter than under ordinary circumstances it ever can be. But,

<sup>1</sup> Light from above is the same thing with reference to our present inquiry.

behold, the blue sky of the horizon is far brighter. The one is indeed blue, and the other white, but the *white* is *darkest*, and by a great deal. And you will, though perhaps not for the first time in your life, perceive that though black is not easily proved to be white, white may, under certain circumstances, be very nearly proved black, or at all events brown.<sup>1</sup>

- § 3. When this fact is first shown to them, the general feeling with most people is, that, by being brought against the sky, the white paper is somehow or other brought "into shade." But this is not so; the paper remains exactly as it was; it is only compared with an actually brighter hue, and looks darker by comparison. The circumstances are precisely like those which affect our sensations of heat and cold. If, when by chance we have one hand warm, and another cold, we feel, with each hand, water warmed to an intermediate degree, we shall first declare the water to be cold, and then to be warm; but the water has a definite heat wholly independent of our sensations, and accurately ascertainable by a thermometer. So it is with light and shade. Looking from the bright sky to the white paper, we affirm the white paper to be "in shade,"—that is, it produces on us a sensation of darkness, by comparison. But the hue of the paper, and that of the sky, are just as fixed as temperatures are; and the sky is actually a brighter thing than white paper, by a certain number of degrees of light, scientifically determinable. In the same way, every other colour, or force of colour, is a fixed thing, not dependent on sensation, but numerically representable with as much exactitude as a degree of heat by a thermometer. And of these hues, that of open sky is one not producible by human art. The sky is not blue *colour* merely,—it is blue *fire*, and cannot be painted.
- § 4. Next, observe, this blue fire has in it *white* fire; that is, it has white clouds, as much brighter than itself as it is brighter than the white paper. So, then, above this azure light, we have another equally exalted step of white light. Supposing the

<sup>1</sup> For which reason, I said in the Appendix to the third volume, that the expression "finite realization of infinity" was a considerably less rational one than "black realization of white."

value of the light of the pure white paper represented by the number 10, then that of the blue sky will be (approximately) about 20, and of the white clouds 30.

But look at the white clouds carefully, and it will be seen they are not all of the same white; parts of them are quite grey compared with other parts, and they are as full of passages of light and shade as if they were of solid earth. Nevertheless, their most deeply shaded part is that already so much lighter than the blue sky, which has brought us up to our number 30, and all these high lights of white are some 10 degrees above that, or, to white paper, as 40 to 10. And now if you look from the blue sky and white clouds towards the sun, you will find that this cloud white, which is four times as white as white paper, is quite dark and lightless compared with those silver clouds that burn nearer the sun itself, which you cannot gaze upon, — an infinite of brightness. How will you estimate that?

And yet to express all this, we have but our poor white paper after all. We must not talk too proudly of our "truths" of art: I am afraid we shall have to let a good deal of black fallacy into it, at the best.

§ 5. Well, of the sun, and of the silver clouds, we will not talk for the present. But this principal fact we have learned by our experiment with the white paper, that, taken all in all, the calm sky, with such light and shade as are in it, is brighter than the earth; brighter than the whitest thing on earth which has not, at the moment of comparison, heaven's own direct light on it. Which fact it is generally one of the first objects of noble painters to render. I have already marked one part of their aim in doing so, namely, the expression of infinity; but the opposing of heavenly light to earth-darkness is another most important one; and of all ways of rendering a picture generally impressive (see especially § 12. of the chapter just referred to), this is the simplest and surest. Make the sky calm and luminous, and raise against it dark trees, mountains, or towers, or any other substantial and terrestrial thing, in bold outline, and the mind accepts the assertion of this great and solemn truth with thankfulness.

§ 6. But this may be done either nobly or basely, as any other solemn truth may be asserted. It may be spoken with true feeling of all that it means; or it may be declared, as a Turk declares that "God is great," when he means only that he himself is lazy. The "heaven is bright," of many vulgar painters, has precisely the same amount of signification; it means that they know nothing,—will do nothing,—are without thought—without care—without passion. They will not walk the earth, nor watch the ways of it, nor gather the flowers of it. They will sit in the shade, and only assert that very perceptible, long-ascertained fact, "heaven is bright." And as it may be *asserted* basely, so it may be *accepted* basely. Many of our capacities for receiving noblest emotion are abused, in mere idleness, for pleasure's sake, and people take the excitement of a solemn sensation as they do that of a strong drink. Thus the abandoned court of Louis XIV. had on fast days its sacred concerts, doubtless entering in some degree into the religious expression of the music, and thus idle and frivolous women at the present day will weep at an oratorio. So the sublimest effects of landscape may be sought through mere indolence; and even those who are not ignorant, or dull, judge often erroneously of such effects of art, because their very openness to all pleasant and sacred association instantly colours whatever they see, so that, give them but the feeblest shadow of a thing they love, they are instantly touched by it to the heart, and mistake their own pleasurable feelings for the result of the painter's power. Thus when, by spotting and splashing, such a painter as Constable reminds them somewhat of wet grass and green leaves, forthwith they fancy themselves in all the happiness of a meadow walk; and when Gaspar Poussin throws out his yellow horizon with black hills, forthwith they are touched as by the solemnity of a real Italian twilight, altogether forgetting that wet grass and twilight do not constitute the universe; and prevented by their joy at being pleasantly cool, or gravely warm, from seeking any of those more precious truths which cannot be caught by momentary sensation, but must be thoughtfully pursued.

§ 7. I say "more precious," for the simple fact that the sky is



brighter than the earth is *not* a precious truth unless the earth itself be first understood. Despise the earth, or slander it; fix your eyes on its gloom, and forget its loveliness; and we do not thank you for your languid or despairing perception of brightness in heaven. But rise up actively on the earth,—learn what there is in it, know its colour and form, and the full measure and make of it, and if *after that* you can say “heaven is bright,” it will be a precious truth, but not till then. Giovanni Bellini knows the earth well, paints it to the full, and to the smallest fig-leaf and falling flower,—blue hill and white-walled city,—glittering robe and golden hair; to each he will give its lustre and loveliness; and then, so far as with his poor human lips he may declare it, far beyond all these, he proclaims that “heaven is bright.” But Gaspar, and such other landscapists, painting all Nature’s flowery ground as one barrenness, and all her fair foliage as one blackness, and all her exquisite forms as one bluntness; when, in this sluggard gloom and sullen treachery of heart, they mutter their miserable attestation to what others had long ago discerned for them,—the sky’s brightness,—we do not thank them; or thank them only in so far as, even in uttering this last remnant of truth, they are more commendable than those who have sunk from apathy to atheism, and declare, in their dark and hopeless backgrounds, that heaven is NOT bright.

§ 8. Let us next ascertain what are the colours of the earth itself.

A mountain five or six miles off, in a sunny summer morning in Switzerland, will commonly present itself in some such pitch of dark force, as related to the sky, as that shown in Fig. 4. Plate 25., while the sky itself will still, if there are white clouds in it, tell as a clear dark, throwing out those white clouds in vigorous relief of light; yet, conduct the experiment of the white paper as already described, and you will, in all probability, find that the darkest part of the mountain—its most vigorous nook of almost black-looking shadow—is *whiter than the paper*.

The figure given represents the *apparent* colour<sup>1</sup> of the top of

<sup>1</sup>The colour, but not the form. I wanted the contour of the top of the Breven for

the Aiguille Bouchard (the mountain which is seen from the village of Chamouni, on the other side of the Glacier des Bois), distant, by Forbes's map, a furlong or two less than four miles in a direct line from the point of observation. The observation was made on a warm sunny morning, about eleven o'clock, the sky clear blue; the mountain seen against it, its shadows grey purple, and its sunlit parts greenish. Then the darkest part of the mountain was *lighter than pure white paper*, held upright in full light at the window, parallel to the direction in which the light entered. And it will thus generally be found impossible to represent, in any of its *true* colours, scenery distant more than two or three miles, in full daylight. The deepest shadows are whiter than white paper.

- § 9. As, however, we pass to nearer objects, true representation gradually becomes possible;—to what degree is always of course ascertainable accurately by the same mode of experiment. Bring the edge of the paper against the thing to be drawn, and on that edge—as precisely as a lady would match the colours of two pieces of a dress—match the colour of the landscape (with a little opaque white mixed in the tints you use, so as to render it easy to lighten or darken them). Take care not to imitate the tint as you believe it to be, but accurately as it is; so that the coloured edge of the paper shall not be discernible from the colour of the landscape. You will then find (if before inexperienced) that shadows of trees, which you thought were dark green or black, are pale violets and purples; that lights, which you thought were green, are intensely yellow, brown, or golden, and most of them far too bright to be matched at all. When you have got all the imitable hues truly matched, sketch the masses of the landscape out completely in those true and ascertained colours; and you will find, to your amazement, that you have painted it in the colours of Turner,—in those very colours which perhaps you have been laughing at all your life,—the fact being that he, and he alone, of all men, *ever painted Nature in her own colours*.

reference in another place, and have therefore given it instead of that of the Bouchard, but in the proper depth of tint.

- § 10. "Well, but," you will answer, impatiently, "how is it, if they are the true colours, that they look so unnatural?"

Because they are not shown in true contrast to the sky, and to other high lights. Nature paints her shadows in pale purple, and then raises her lights of heaven and sunshine to such height that the pale purple becomes, by comparison, a vigorous dark. But poor Turner has no sun at his command to oppose his pale colours. He follows Nature submissively as far as he can; puts pale purple where she does, bright gold where she does; and then when, on the summit of the slope of light, she opens her wings and quits the earth altogether, burning into ineffable sunshine, what can he do but sit helpless, stretching his hands towards her in calm consent, as she leaves him and mocks at him!

- § 11. "Well," but you will farther ask, "is this right or wise? ought not the contrast between the masses to be given, rather than the actual hues of a few parts of them, when the others are inimitable?"

Yes, if this *were* possible, it ought to be done; but the true contrasts can NEVER be given. The whole question is simply whether you will be false at one side of the scale or at the other, — that is, whether you will lose yourself in light or in darkness. This necessity is easily expressible in numbers. Suppose the utmost light you wish to imitate is that of serene, feebly lighted, clouds in ordinary sky (not sun or stars, which it is, of course, impossible deceptively to imitate in painting by any artifice). Then, suppose the degrees of shadow between those clouds and Nature's utmost darkness accurately measured, and divided into a hundred degrees (darkness being zero). Next we measure our own scale, calling our utmost possible black, zero<sup>1</sup>; and we shall be able to keep parallel with Nature, perhaps up to as far as her 40 degrees; all above that being whiter than our white paper. Well, with our power of contrast between zero and 40, we have to imitate her contrasts between zero and 100. Now, if we want true contrasts, we can first set our 40 to represent

<sup>1</sup> Even here we shall be defeated by Nature, her utmost darkness being deeper than ours. See Part II. Sec. II. Chap. I. § 4—7. &c.

her 100, our 20 for her 80, and our zero for her 60; every thing below her 60 being lost in blackness. This, is, with certain modifications, Rembrandt's system. Or, secondly, we can put zero for her zero, 20 for her 20, and 40 for her 40; everything above 40 being lost in *whiteness*. This is, with certain modifications, Paul Veronese's system. Or, finally, we can put our zero for her zero, and our 40 for her 100; our 20 for her 50, our 30 for her 75, and our 10 for her 25, proportioning the intermediate contrasts accordingly. This is, with certain modifications, Turner's system<sup>1</sup>; the modifications, in each case, being the adoption, to a certain extent, of either of the other systems. Thus, Turner inclines to Paul Veronese; liking, as far as possible, to get his hues perfectly true up to a certain point,—that is to say, to let his zero stand for Nature's zero, and his 10 for her 10, and his 20 for her 20, and then to expand towards the light by quick but cunning steps, putting 27 for 50, 30 for 70, and reserving some force still for the last 90 to 100. So Rembrandt modifies his system on the other side, putting his 40 for 100, his 30 for 90, his 20 for 80; then going subtly downwards, 10 for 50, 5 for 30; nearly everything between 30 and zero being lost in gloom, yet so as still to reserve his zero for zero. The systems expressed in tabular form will stand thus:—

| NATURE. |   | REMBRANDT. |   | TURNER. |   | VERONESE. |
|---------|---|------------|---|---------|---|-----------|
| 0       | . | 0          | . | 0       | . | 0         |
| 10      | . | 1          | . | 10      | . | 10        |
| 20      | . | 3          | . | 20      | . | 20        |
| 30      | . | 5          | . | 24      | . | 30        |
| 40      | . | 7          | . | 26      | . | 32        |
| 50      | . | 10         | . | 27      | . | 34        |
| 60      | . | 13         | . | 28      | . | 36        |
| 70      | . | 17         | . | 30      | . | 37        |
| 80      | . | 20         | . | 32      | . | 38        |
| 90      | . | 30         | . | 36      | . | 39        |
| 100     | . | 40         | . | 40      | . | 40        |

§ 12. Now it is evident that in Rembrandt's system, while the *contrasts* are not more right than with Veronese, the *colours* are all

<sup>1</sup> When the clouds are brilliantly lighted, it may rather be, as stated in § 4. above in the proportion of 160 to 40. I take the number 100 as more calculable.

wrong, from beginning to end. With Turner and Veronese, Nature's 10 is their 10, and Nature's 20 their 20; enabling them to give pure truth up to a certain point. But with Rembrandt, *not one colour* is absolutely true, from one side of the scale to the other; only the contrasts are true at the top of the scale. Of course, this supposes Rembrandt's system applied to a subject which shall try it to the utmost, such as landscape. Rembrandt generally chose subjects in which the real colours were very nearly imitable,—as single heads with dark backgrounds, in which Nature's highest light was little above his own; her 40 being then truly representable by his 40, his picture became nearly an absolute truth. But his system is only right when applied to such subjects: clearly, when we have the full scale of natural light to deal with, Turner's and Veronese's convey the greatest sum of truth. But not the most complete deception, for people are so much more easily and instinctively impressed by force of light than truth of colour, that they instantly miss the relative power of the sky, and the upper tones; and all the true local colouring looks strange to them, separated from its adjuncts of high light; whereas, give them the true contrast of light, and they will not observe the false local colour. Thus all Gaspar Poussin's and Salvator's pictures, and all effects obtained by leaving high lights in the midst of exaggerated darkness, catch the eye, and are received for true, while the pure truth of Veronese and Turner is rejected as unnatural; only not so much in Veronese's case as in Turner's, because Veronese confines himself to more imitable things, as draperies, figures, and architecture, in which his exquisite truth at the bottom of the scale tells on the eye at once; but Turner works a good deal also (see the table) at the *top* of the natural scale, dealing with effects of sunlight and other phases of the upper colours, more or less inimitable, and betraying therefore, more or less, the artifices used to express them. It will be observed, also, that in order to reserve some force for the top of his scale, Turner is obliged to miss his gradations chiefly in middle tints (see the table), where the feebleness is sure to be felt. His principal point for missing the midmost gradations is almost always between the earth and sky;

he draws the earth truly as far as he can, to the horizon; then the sky as far as he can, with his 30 to 40 part of the scale. They run together at the horizon; and the spectator complains that there is no distinction between earth and sky, or that the earth does not *look solid enough*.

- § 13. In the upper portions of the three pillars 5, 6, 7, Plate 25., are typically represented these three conditions of light and shade, characteristic, 5, of Rembrandt, 6, of Turner, and 7, of Veronese. The pillar to be drawn is supposed, in all the three cases, white; Rembrandt represents it as white on its highest light; and, getting the true gradations between this highest light and extreme dark, is reduced to his zero, or black, for the dark side of the white object. This first pillar also represents the system of Leonardo da Vinci. In the room of the Louvre appropriated to Italian drawings is a study of a piece of drapery by Leonardo. Its lights are touched with the finest white chalk, and its shadows wrought, through exquisite gradations, to utter blackness. The pillar 6 is drawn on the system of Turner; the high point of light is still distinct: but even the darkest part of the shaft is kept pale, and the gradations which give the roundness are wrought out with the utmost possible delicacy. The third shaft is drawn on Veronese's system. The light, though still focused, is more diffused than with Turner; and a slight flatness results from the determination that the fact of the shaft's being *white* shall be discerned more clearly even than that it is round; and that its darkest part shall still be capable of brilliant relief, as a white mass, from other objects round it.

- § 14. This resolution, on Veronese's part, is owing to the profound respect for the *colours* of objects which necessarily influenced him, as the colourist at once the most brilliant and the most tender of all painters of the elder schools; and it is necessary for us briefly to note the way in which this greater or less respect for local colour influences the system of the three painters in light and shade.

Take the whitest piece of note-paper you can find, put a blot of ink upon it, carry it into the sunshine, and hold it fully fronting the sunshine, so as to make the paper look as dazzling as possible,

but not to let the wet blot of ink *shine*. You will then find the ink look *intensely* black,—black, in fact, than anywhere else, owing to its vigorous contrast with the dazzling paper.

Remove the paper from the sunshine. The ink will not look so black. Carry the paper gradually into the darkest part of the room, and the contrast will as gradually appear to diminish; and, of course, in darkness, the distinction between the black and the white vanishes. Wet ink is as perfect a representative as is by any means attainable of a perfectly dark colour; that is, of one which absorbs all the light that falls on it; and the nature of such a colour is best understood by considering it as a piece of portable night. Now, of course, the higher you raise the daylight about this bit of night, the more vigorous is the contrast between the two. And, therefore, as a general rule, the higher you raise the light on any object with a pattern or stain upon it, the more distinctly that pattern or stain is seen.

But observe: the distinction between the full black of ink, and full white of paper, is the utmost reach of light and dark possible to art. Therefore, if this contrast is to be represented truly, no deeper black can ever be given in any shadow than that offered at once, as local colour, in a full black pattern, on the highest light. And, where colour is the principal object of the picture, that colour must, at all events, be as right as possible *where it is best seen*, i. e. in the lights. Hence the principle of Paul Veronese, and of all the great Venetian colourists, is to use full black for full black in high light, letting the shadow shift for itself as best it may; and sometimes even putting the local black a little darker in light than shadow, in order to give the more vigorous contrast noted above. Let the pillars in Plate 25. be supposed to have a black mosaic pattern on the lower part of their shafts. Paul Veronese's general practice will be, as at 7, having marked the rounding of the shaft as well as he can in the white parts, to paint the pattern with one even black over all, reinforcing it, if at all, a little in the *light*.

- § 15. Repeat the experiment on the note-paper with a red spot of carmine instead of ink. You will now find that the contrast in the sunshine appears about the same as in the shade—the red and

white rising and falling together, and dying away together into the darkness. The fact, however, is, that the contrast does actually for some time increase towards the light; for in utter darkness the distinction is not visible—the red cannot be distinguished from the white; admit a little light, and the contrast is feebly discernible; admit more, it is distinctly discernible. But you cannot increase the contrast beyond a certain point. From that point the red and white for some time rise very nearly equally in light, or fall together very nearly equally in shade; but the contrast will begin to *diminish* in very high lights, for strong sunlight has a tendency to exhibit particles of dust, or any sparkling texture in the local colour, and then to diminish its power; so that in order to see local colour well, a certain degree of shadow is necessary: for instance, a very delicate complexion is not well seen in the sun; and the veins of a marble pillar, or the colours of a picture, can only be properly seen in comparative shade.

- § 16. I will not entangle the reader in the very subtle and curious variations of the laws in this matter. The simple fact which is *necessary* for him to observe is, that the paler and purer the colour, the more the great Venetian colourists will reinforce it in the shadow, and allow it to fall or rise in sympathy with the light; and those especially whose object it is to represent sunshine, nearly always reinforce their local colours somewhat in the shadows, and keep them both fainter and feebler in the light, so that they thus approach a condition of universal glow, the full colour being used for the shadow, and a delicate and somewhat subdued hue of it for the light. And this to the eye is the loveliest possible condition of colour. Perhaps few people have ever asked themselves why they admire a rose so much more than all other flowers. If they consider, they will find, first, that red is, in a delicately gradated state, the loveliest of all pure colours; and secondly, that in the rose there is *no shadow*, except what is composed of colour. All its shadows are fuller in colour than its lights, owing to the translucency and reflective power of its leaves.

The second shaft, 6, in which the local colour is paler towards



the light, and reinforced in the shadow, will therefore represent the Venetian system with respect to paler colours, and the system, for the most part, even with respect to darker colours, of painters who attempt to render effects of strong sunlight. Generally, therefore, it represents the practice of Turner. The first shaft, 5, exhibits the disadvantage of the practice of Rembrandt and Leonardo, in that they cannot show the local colour on the dark side, since, however energetic, it must at last sink into their exaggerated darkness.

§ 17. Now, from all the preceding inquiry, the reader must perceive more and more distinctly the great truth, that all forms of right art consist in a certain *choice* made between various classes of truths, a few only being represented, and others necessarily excluded; and that the excellence of each style depends first on its consistency with itself,—the perfect fidelity, as far as possible, to the truths it has chosen; and secondly, on the breadth of its harmony, or number of truths it has been able to reconcile, and the consciousness with which the truths refused are acknowledged, even though they may not be represented. A great artist is just like a wise and hospitable man with a small house: the large companies of truths, like guests, are waiting his invitation; he wisely chooses from among this crowd the guests who will be happiest with each other, making those whom he receives thoroughly comfortable, and kindly remembering even those whom he excludes; while the foolish host, trying to receive all, leaves a large part of his company on the staircase, without even knowing who is there, and destroys, by inconsistent fellowship, the pleasure of those who gain entrance.

§ 18. But even those hosts who choose well will be farther distinguished from each other by their choice of nobler or inferior companies; and we find the greatest artists mainly divided into two groups,—those who paint principally with respect to local colour, headed by Paul Veronese, Titian, and Turner; and those who paint principally with reference to light and shade irrespective of colour, headed by Leonardo da Vinci, Rembrandt, and Raphael. The noblest members of each of these classes introduce the element proper to the other class, in a subordinate

way. Paul Veronese introduces a subordinate light and shade, and Leonardo introduces a subordinate local colour. The main difference is, that with Leonardo, Rembrandt, and Raphael, vast masses of the picture are lost in comparatively colourless (dark grey or brown) shadow; these painters *beginning* with the *lights*, and going *down* to blackness; but with Veronese, Titian, and Turner, the whole picture is like the rose, — glowing with colour in the shadows, and rising into paler and more delicate hues, or masses of whiteness, in the lights; they having *begun* with the *shadows*, and gone up to whiteness.

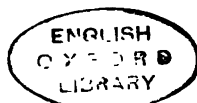
§ 19. The colourists have in this respect one disadvantage, and three advantages. The disadvantage is, that between their less violent hues, it is not possible to draw all the forms which can be represented by the exaggerated shadows of the chiaroscurists, and therefore a slight tendency to flatness is always characteristic of the greater colourists, as opposed to Leonardo or Rembrandt. When the form of some single object is to be given, and its subtleties are to be rendered to the utmost, the Leonardesque manner of drawing is often very noble. It is generally adopted by Albert Durer in his engravings, and is very useful, when employed by a thorough master, in many kinds of engraving<sup>1</sup>; but it is an utterly false method of *study*, as we shall see presently.

§ 20. Of the three advantages possessed by the colourists over the chiaroscurists, the first is, that they have in the greater portions of their pictures *absolute* truth, as shown above, § 12., while the chiaroscurists have no absolute truth anywhere. With the colourists the shadows are right; the lights untrue: but with the

<sup>1</sup> It is often extremely difficult to distinguish properly between the Leonardesque manner, in which local colour is denied altogether, and the Turneresque, in which local colour at its highest point in the picture is merged in whiteness. Thus, Albert Durer's noble "Melancholia" is entirely Leonardesque; the leaves on her head, her flesh, her wings, her dress, the wolf, the wooden ball, and the rainbow, being all equally white on the high lights. But my drawing of leaves, facing page 126. Vol. III., is Turneresque; because, though I leave pure white to represent the pale green of leaves and grass in high light, I give definite increase of darkness to four of the bramble leaves, which, in reality, were purple, and leave a dark withered stalk nearly black, though it is in light, where it crosses the leaf in the centre. These distinctions could only be properly explained by a lengthy series of examples; which I hope to give some day or other, but have not space for here.

chiaroscurists lights and shadows are both untrue. The second advantage is, that also the *relations* of colour are broader and vaster with the colourists than the chiaroscurists. Take, for example, that piece of drapery studied by Leonardo, in the Louvre, with white lights and black shadows. Ask yourself, first, whether the real drapery was black or white. If white, then its high lights are rightly white; but its folds being black, it could not *as a mass* be distinguished from the black or dark objects in its neighbourhood. But the fact is, that a white cloth or handkerchief always *is* distinguished in daylight, as a *whole white thing*, from all that is coloured about it: we see at once that there is a white piece of stuff, and a red, or green, or grey one near it, as the case may be: and this relation of the white object to other objects *not* white, Leonardo has wholly deprived himself of the power of expressing; while, if the cloth were black or dark, much more has he erred by making its lights white. In either case, he has missed the large relation of mass to mass, for the sake of the small one of fold to fold. And this is more or less the case with all chiaroscurists; with all painters, that is to say, who endeavour in their studies of objects to get rid of the idea of colour, and give the abstract shade. They invariably exaggerate the shadows, not with respect to the thing itself, but with respect to all around it; and they exaggerate the lights also, by leaving pure white for the high light of what in reality is grey, rose-coloured, or, in some way, not white.

- § 21. This method of study, being peculiarly characteristic of the Roman and Florentine schools, and associated with very accurate knowledge of form and expression, has gradually got to be thought by a large body of artists the *grand* way of study; an idea which has been fostered all the more because it was an unnatural way, and therefore thought to be a philosophical one. Almost the first idea of a child, or of a simple person looking at any thing, is, that it is a red, or a black, or a green, or a white thing. Nay, say the artists; that is an unphilosophical and barbarous view of the matter. Red and white are mere vulgar appearances; look farther into the matter, and you will see such and such wonderful other appearances. Abstract those, *they* are



the heroic, epic, historic, and generally eligible appearances. And acting on this grand principle, they draw flesh white, leaves white, ground white, everything white in the light, and everything black in the shade — and think themselves wise. But, the longer I live, the more ground I see to hold in high honour a certain sort of childishness or innocent susceptibility. Generally speaking, I find that when we first look at a subject, we get a glimpse of some of the greatest truths about it: as we look longer, our vanity, and false reasoning, and half-knowledge, lead us into various wrong opinions; but as we look longer still, we gradually return to our first impressions, only with a full understanding of their mystical and innermost reasons; and of much beyond and beside them, not then known to us, now added (partly as a foundation, partly as a corollary) to what at first we felt or saw. It is thus eminently in this matter of colour. Lay your hand over the page of this book,—any child or simple person looking at the hand and book, would perceive, as the main fact of the matter, that a brownish pink thing was laid over a white one. The grand artist comes and tells you that your hand is not pink, and your paper is not white. He shades your fingers and shades your book, and makes you see all manner of starting veins, and projecting muscles, and black hollows, where before you saw nothing but paper and fingers. But go a little farther, and you will get more innocent again; you will find that, when “science has done its worst, two and two still make four;” and that the main and most important facts about your hand, so seen, are, after all, that it has four fingers and a thumb — showing as brownish pink things on white paper.

- § 22. I have also been more and more convinced, the more I think of it, that in general *pride is at the bottom of all great mistakes*. All the other passions do occasional good, but whenever pride puts in *its* word, everything goes wrong, and what it might really be desirable to do, quietly and innocently, it is mortally dangerous to do, proudly. Thus, while it is very often good for the artist to make *studies* of things, for the sake of knowing their forms, with their high lights all white, the moment he does this in a haughty way, and thinks himself drawing in the great style,

because he leaves high lights white, it is all over with him; and half the degradation of art in modern times has been owing to endeavours, much fostered by the metaphysical Germans, to see things without colour, as if colour were a vulgar thing, the result being, in most students, that they end by not being able to see anything at all; whereas the true and perfect way of studying any object is simply to look what its colour is in high light, and put that safely down, if possible; or, if you are making a *chiaroscuro* study, to take the grey answering to that colour, and cover the *whole* object at once with that grey, firmly resolving that no part of it shall be brighter than that; then look for the darkest part of it, and if, as is probable, its darkest part be still a great deal lighter than black, or than other things about it, assume a given shade, as dark as, with due reference to other things, you can have it, but no darker. Mark that for your extreme dark on the object, and between those limits get as much drawing as you can, by subtlety of gradation. That will tax your powers of drawing indeed; and you will find this, which seems a childish and simple way of going to work, requires verily a thousandfold more power to carry out than all the pseudo-scientific abstractions that ever were invented.

- § 23. Nor can it long be doubted that it is also the most impressive way to others; for the third great advantage possessed by the colourists is, that the delightfulness of their picture, its sacredness, and general nobleness, are increased exactly in proportion to the quantity of light and of lovely colour they can introduce in the *shadows*, as opposed to the black and grey of the *chiaroscuro*ists. I have already, in the *Stones of Venice*, vol. ii. chap. v., insisted upon the fact of the sacredness of colour, and its necessary connection with all pure and noble feeling. What we have seen of the use of colour by the poets will help to confirm this truth; but perhaps I have not yet enough insisted on the simplest and readiest to hand of all proofs,—the way, namely, in which God has employed colour in His creation as the unvarying accompaniment of all that is purest, most innocent, and most precious; while for things precious only in material uses, or dangerous, common colours are reserved. Con-

sider for a little while what sort of a world it would be if all flowers were grey, all leaves black, and the sky *brown*. Imagine that, as completely as may be, and consider whether you would think the world any whit more sacred for being thus transfigured into the hues of the shadows in Raphael's Transfiguration. Then observe how constantly innocent things are bright in colour; look at a dove's neck, and compare it with the grey back of a viper; I have often heard talk of brilliantly coloured serpents; and I suppose there are such,—as there are gay poisons, like the foxglove and kalmia—types of deceit: but all the venomous serpents I have really *seen* are grey, brick-red, or brown, variously mottled; and the most awful serpent I have seen, the Egyptian asp, is precisely of the colour of gravel, or only a little greyer. So, again, the crocodile and alligator are grey, but the innocent lizard green and beautiful. I do not mean that the rule is invariable, otherwise it would be more convincing than the lessons of the natural universe are intended ever to be; there are beautiful colours on the leopard and tiger, and in the berries of the nightshade; and there is nothing very notable in brilliancy of colour either in sheep or cattle (though, by the way, the velvet of a brown bull's hide in the sun, or the tawny white of the Italian oxen, is, to my mind, lovelier than any leopard's or tiger's skin): but take a wider view of nature, and compare generally rainbows, sunrises, roses, violets, butterflies, birds, gold-fish, rubies, opals, and corals, with alligators, hippopotami, lions, wolves, bears, swine, sharks, slugs, bones, fungi<sup>1</sup>, fogs, and corrupting, stinging, destroying things in general, and you will feel then how the question stands between the colourists and chiaroscurists,—which of them have nature and life on their side, and which have sin and death.

§ 24. Finally: the ascertainment of the sanctity of colour is not left to human sagacity. It is distinctly stated in Scripture. I have before alluded to the sacred chord of colour (blue, purple, and scarlet, with white and gold) as appointed in the Tabernacle;

<sup>1</sup> It is notable, however, that nearly all the poisonous agarics are scarlet or speckled, and wholesome ones brown or grey, as if to show us that things rising out of darkness and decay are always most deadly when they are well drest.

this chord is the fixed base of all colouring with the workmen of every great age; the purple and scarlet will be found constantly employed by noble painters, in various unison, to the exclusion in general of pure crimson;—it is the harmony described by Herodotus as used in the battlements of Ecbatana, and the invariable base of all beautiful missal-painting; the mistake continually made by modern restorers, in supposing the purple to be a faded crimson, and substituting full crimson for it, being instantly fatal to the whole work, as, indeed, the slightest modification of any hue in a perfect colour-harmony must always be.<sup>1</sup> In this chord the scarlet is the powerful colour, and is on the whole the most perfect representation of abstract colour which exists; blue being in a certain degree associated with shade, yellow with light, and scarlet, as absolute *colour*, standing alone. Accordingly, we find it used, together with cedar wood, hyssop, and running water, as an emblem of purification, in Leviticus xiv. 4. and other places, and so used not merely as representative of the colour of blood, since it was also to be dipped in the actual blood of a living bird. So that the cedar wood for its perfume, the hyssop for its searchingness, the water for its cleansing, and the scarlet for its kindling or enlightening, are all used as tokens of sanctification<sup>2</sup>; and it cannot be with any force alleged, in opposition to this definite appointment, that scarlet is used incidentally to illustrate the stain of sin,—“though thy sins be as scarlet,”—any more than it could be received as a diminution of the authority for using snow-whiteness as a type of purity, that Gehazi’s leprosy is described as being “white as snow.” An incidental image has no authoritative meaning, but a stated ceremonial appointment has; besides, we have the reversed image given distinctly in Prov. xxxi.: “She is not afraid of the snow for her household, for all her household are clothed with *scarlet*.” And, again: “Ye daughters of Israel, weep over Saul, who clothed you in scarlet, with other delights.” So, also, the arraying of

<sup>1</sup> Hence the intense absurdity of endeavouring to “restore” the colour of ancient buildings by the hands of ignorant colourists, as at the Crystal Palace.

<sup>2</sup> The redeemed Rahab bound for a sign a *scarlet* thread in the window. Compare Canticles, iv. 3.

the mystic Babylon in purple and scarlet may be interpreted exactly as we choose; either, by those who think colour sensual, as an image of earthly pomp and guilt, or, by those who think it sacred, as an image of assumed or pretended sanctity. It is possible the two meanings may be blended, and the idea may be that the purple and fine linen of Dives are worn in hypocritical semblance of the purple and fine linen of the high priest, being, nevertheless, themselves, in all cases typical of all beauty and purity. I hope, however, to be able some day to enter farther into these questions with respect to the art of illumination; meantime, the facts bearing on our immediate subject may be briefly recapitulated. All men, completely organized and justly tempered, enjoy colour; it is meant for the perpetual comfort and delight of the human heart; it is richly bestowed on the highest works of creation, and the eminent sign and seal of perfection in them; being associated with *life* in the human body, with *light* in the sky, with *purity* and hardness in the earth,—death, night, and pollution of all kinds being colourless. And although if form and colour be brought into complete opposition<sup>1</sup>,

<sup>1</sup> The inconsistency between perfections of colour and form, which I have had to insist upon in other places, is exactly like that between articulation and harmony. We cannot have the richest harmony with the sharpest and most audible articulation of words: yet good singers will articulate clearly; and the perfect study of the science of music will conduct to a fine articulation; but the study of pronunciation will not conduct to, nor involve, that of harmony. So, also, though, as said farther on, *subtle* expression can be got without colour, perfect expression never can; for the colour of the face is a part of its expression. How often has that scene between Francesca di Rimini and her lover been vainly attempted by sculptors, simply because they did not observe that the main note of expression in it was in the fair sheet-lightning—fading and flaming through the cloud of passion!

Per più fiata gli occhi ci sospinse  
Quella lettura, e scoloracci il viso.

And, of course, in landscape, colour is the principal source of expression. Take one melancholy chord from the close of Crabbe's Patron:

"Cold grew the foggy morn; the day was brief,  
Loose on the cherry hung the crimson leaf.  
The dew dwelt ever on the herb; the woods  
Roared with strong blasts; with mighty showers, the floods:  
All green was vanished, save of pine and yew  
That still displayed their melancholy hue;  
Save the green holly, with its berries red  
And the green moss that o'er the gravel spread."



so that it should be put to us as a matter of stern choice whether we should have a work of art all of form, without colour (as an Albert Durer's engraving), or all of colour, without form (as an imitation of mother-of-pearl), form is beyond all comparison the more precious of the two; and in explaining the essence of objects, form is essential, and colour more or less accidental (compare Chap. v. of the first section of Vol. I.); yet if colour be introduced at all, it is necessary that, whatever else may be wrong, *that* should be right: just as, though the music of a song may not be so essential to its influence as the meaning of the words, yet if the music be given at all, *it* must be right, or its discord will spoil the words; and it would be better, of the two, that the words should be indistinct, than the notes false. Hence, as I have said elsewhere, the business of a painter is to paint. If he can colour, he is a painter, though he can do nothing else; if he cannot colour, he is no painter, though he may do everything else. But it is, in fact, impossible, if he can colour, but that he should be able to do more; for a faithful study of colour will always give power over form, though the most intense study of form will give no power over colour. The man who can see all the greys, and reds, and purples in a peach, will paint the peach rightly round, and rightly altogether; but the man who has only studied its roundness, may not see its purples and greys, and if he does not, will never get it to look like a peach; so that great power over colour is always a sign of large general art-intellect. Expression of the most subtle kind can be often reached by the slight studies of caricaturists<sup>1</sup>; sometimes elaborated by the toil of the dull, and sometimes by the sentiment of the feeble; but to colour well requires real talent and earnest study, and to colour perfectly is the rarest and most precious power an artist can possess. Every other gift may be erroneously cultivated, but this will guide to all healthy, natural, and forcible truth; the student may be led into folly by philosophers, and into falsehood by purists; but he is always safe, if he holds the hand of a colourist.

<sup>1</sup> See Appendix I. Modern Grotesque.

## CHAPTER IV.

## OF TURNERIAN MYSTERY:—FIRST, AS ESSENTIAL.

§ 1. IN the preceding chapters we have shown the nature of Turner's art; first, as respected sympathy with his subject; next, as respected fidelity to local detail; and thirdly, as respected principles of colour. We have now finally to confirm what in various places has been said respecting his principles of *delineation*, or that mysterious and apparently uncertain execution by which he is distinguished from most other painters.

In Chap. III. § 17. of the preceding volume we concluded generally that all great drawing was *distinct* drawing; but with reference, nevertheless, to a certain sort of indistinctness, necessary to the highest art, and afterwards to be explained. And the inquiry into this seeming contradiction has, I trust, been made somewhat more interesting by what we saw respecting modern art in the fourth paragraph of Chap. XVI., namely, that it was distinguished from old art eminently by *indistinctness*, and by its idle omission of details for the sake of general effect. Perhaps also, of all modern artists, Turner is the one to whom most people would first look as the great representative of this nineteenth century cloudiness, and "ingenious speaking concerning smoke;" every one of his compositions being evidently dictated by a delight in seeing only part of things rather than the whole, and in casting clouds and mist around them rather than unveiling them.

§ 2. And as the head of modern mystery, all the ranks of the best ancient, and of even a very important and notable division of modern authority, seem to be arrayed against him. As we saw in preceding chapters, every great man was definite until the

seventeenth century. John Bellini, Leonardo, Angelico, Durer, Perugino, Raphael,—all of them hated fog, and repudiated indignantly all manner of concealment. Clear, calm, placid, perpetual vision, far and near; endless perspicuity of space; unfatigued veracity of eternal light; perfectly accurate delineation of every leaf on the trees, every flower in the fields, every golden thread in the dresses of the figures, up to the highest point of calm brilliancy which was penetrable to the eye, or possible to the pencil,—these were their glory. On the other—the entirely mysterious—side, we have only sullen and sombre Rembrandt; desperate Salvator; filmy, futile Claude; occasionally some countenance from Correggio and Titian, and a careless condescension or two from Tintoret<sup>1</sup>,—not by any means a balanced weight of authority. Then, even in modern times, putting Turner (who is at present the prisoner at the bar) out of the question, we have, in landscape, Stanfield and Harding as definers, against Copley Fielding and Robson on the side of the clouds<sup>2</sup>; Mulready and Wilkie against Etty,—even Etty being not so much misty in conception as vague in execution, and not, therefore, quite legitimately to be claimed on the foggy side; while, finally, the whole body of the Pre-Raphaelites—certainly the greatest men, taken as a class, whom modern Europe has produced in concernment with the arts—entirely agree with the elder religious painters, and do, to their utmost, dwell in an element of light and declaration, in antagonism to all mist and deception. Truly, the clouds seem to be getting much the worst of it; and I feel, for the moment, as if nothing could be said for them. However, having been myself long a cloud-worshipper, and passed many hours of life in the pursuit of them from crag to crag, I must consider what can possibly be submitted in their defence, and in Turner's.

<sup>1</sup> In the clouds around Mount Sinai, in the picture of the Golden Calf; the smoke turning into angels, in the Cenacolo in San Giorgio Maggiore; and several other such instances.

<sup>2</sup> Stanfield I call a definer, as opposed to Copley Fielding, because, though, like all other moderns, he paints cloud and storm, he will generally paint all the masts and yards of a ship, rather than merely her black bows glooming through the foam; and all the rocks on a hill side, rather than the blue outline of the hill through the mist.

- § 3. The first and principal thing to be submitted is, that the clouds *are there*. Whether we like them or not, it is a fact that by far the largest spaces of the habitable world are full of them. That is Nature's will in the matter; and whatever we may theoretically determine to be expedient or beautiful, she has long ago determined what shall *be*. We may declare that clear horizons and blue skies form the most exalted scenery; but for all that, the bed of the river in the morning will still be traced by its line of white mist, and the mountain peaks will be seen at evening only in the rents between their blue fragments of towering cloud. Thus it is, and that so constantly, that it is impossible to become a faithful landscape painter without continually getting involved in effects of this kind. We may, indeed, avoid them systematically, but shall become narrow mannerists if we do.
- § 4. But not only is there a *partial* and variable mystery thus caused by clouds and vapours throughout great spaces of landscape; there is a continual mystery caused throughout *all* spaces, caused by the absolute infinity of things. **WE NEVER SEE ANYTHING CLEARLY.** I stated this fact partly in the chapter on Truth of Space, in the first volume, but not with sufficient illustration, so that the reader might by that chapter have been led to infer that the mystery spoken of belonged to some special distance of the landscape, whereas the fact is, that everything we look at, be it large or small, near or distant, has an equal quantity of mystery in it; and the only question is, not how much mystery there is, but at what part of the object mystification begins. We suppose we see the ground under our feet clearly, but if we try to number its grains of dust, we shall find that it is as full of confusion and doubtful form as anything else; so that there is literally *no* point of clear sight, and there never can be. What we call seeing a thing clearly, is only seeing enough of it to *make out what it is*; this point of intelligibility varying in distance for different magnitudes and kinds of things, while the appointed quantity of mystery remains nearly the same for all. Thus: throwing an open book and an embroidered handkerchief on a lawn, at a distance of half a mile we cannot tell which is which; that is the point of mystery for the whole of those things. They are then merely white spots of indistinct shape. We approach

them, and perceive that one is a book, the other a handkerchief, but cannot read the one, nor trace the embroidery of the other. The mystery has ceased to be in the whole things, and has gone into their details. We go nearer, and can now read the text and trace the embroidery, but cannot see the fibres of the paper, nor the threads of the stuff. The mystery has gone into a third place. We take both up and look closely at them; we see the watermark and the threads, but not the hills and dales in the paper's surface, nor the fine fibres which shoot off from every thread. The mystery has gone into a fourth place, where it must stay, till we take a microscope, which will send it into a fifth, sixth, hundredth, or thousandth place, according to the power we use. When, therefore, we say, we see the book *clearly*, we mean only that we know it is a book. When we say that we see the letters clearly, we mean that we know what letters they are; and artists feel that they are drawing objects at a convenient distance when they are so near them as to know, and to be able in painting to show that they know, what the objects are, in a tolerably complete manner; but this power does not depend on any definite distance of the object, but on its size, kind, and distance, together; so that a small thing in the foreground may be precisely in the same *phase* or place of mystery as a large thing far away.

- § 5. The other day, as I was lying down to rest on the side of the hill round which the Rhone sweeps in its main angle, opposite Martigny, and looking carefully across the valley to the ridge of the hill which rises above Martigny itself, then distant about four miles, a plantain seed-vessel about an inch long, and a withered head of a scabious half an inch broad, happened to be seen rising up, out of the grass near me, across the outline of the distant hill, so as seemingly to set themselves closely beside the large pines and chestnuts which fringed that distant ridge. The plantain was eight yards from me, and the scabious seven; and to my sight, at these distances, the plantain and the far-away pines were equally clear (it being a clear day, and the sun stooping to the west). The pines, four miles off, showed their branches, but I could not count them: and two or three young and old Spanish chestnuts beside them showed their broken masses distinctly; but I could not count those masses,

only I knew the trees to be chestnuts by their general look. The plantain and scabious in like manner I knew to be a plantain and scabious by their general look. I saw the plantain seed-vessel to be, somehow, rough, and that there were two little projections at the bottom of the scabious head which I knew to mean the leaves of the calyx; but I could no more count distinctly the seeds of the plantain, or the group of leaves forming the calyx of the scabious, than I could count the branches of the far-away pines.

- § 6. Under these circumstances, it is quite evident that neither the pine nor plantain could have been rightly represented by a single dot or stroke of colour. Still less could they be represented by a definite drawing, on a small scale, of a pine with all its branches clear, or of a plantain with all its seeds clear. The round dot or long stroke would represent nothing, and the clear delineation too much. They were not mere dots of colour which I saw on the hill, but something full of essence of pine; out of which I could gather which were young and which were old, and discern the distorted and crabbed pines from the symmetrical and healthy pines; and feel how the evening sun was sending its searching threads among their dark leaves;—assuredly they were more than dots of colour. And yet not one of their boughs or outlines could be distinctly made out, or distinctly drawn. Therefore, if I had drawn either a definite pine, or a dot, I should have been equally wrong, the right lying in an inexplicable, almost inimitable, confusion between the two.

- § 7. “But is this only the case with pines four miles away, and with plantains eight yards?”

Not so. Everything in the field of sight is equally puzzling, and can only be drawn rightly on the same difficult conditions. Try it fairly. Take the commonest, closest, most familiar thing, and strive to draw it verily as you see it. Be sure of this last fact, for otherwise you will find yourself continually drawing, not what you *see*, but what you *know*. The best practice to begin with is, sitting about three yards from a bookcase (not your own, so that you may *know* none of the titles of the books), to try to draw the books accurately, with the titles on the backs, and patterns on the bindings, as you see them. You are not to stir from

your place to look what they are, but to draw them simply as they appear, giving the perfect look of neat lettering; which, nevertheless, must be (as you will find it on most of the books) absolutely illegible. Next try to draw a piece of patterned muslin or lace (of which you do not know the pattern), a little way off, and rather in the shade; and be sure you get all the grace and *look* of the pattern without going a step nearer to see what it is. Then try to draw a bank of grass, with all its blades; or a bush, with all its leaves; and you will soon begin to understand under what a universal law of obscurity we live, and perceive that all *distinct* drawing must be *bad* drawing, and that nothing can be right, till it is unintelligible.

§ 8. "How! and Pre-Raphaelitism and Durerism, and all that you have been talking to us about for these five hundred pages!"

Well, it is all right; Pre-Raphaelitism is quite as unintelligible as need be (I will answer for Durerism farther on). Examine your Pre-Raphaelite painting well, and you will find it is the precise fulfilment of these laws. You can make out your plantain head and your pine, and see entirely what they are; but yet they are full of mystery, and suggest more than you can see. So also with Turner, the true head of Pre-Raphaelitism. You shall see the spots of the trout lying dead on the rock in his foreground, but not count them. It is only the Germans and the so-called masters of drawing and defining that are wrong, not the Pre-Raphaelites.<sup>1</sup>

<sup>1</sup> Compare, if at hand, my letter in the Times, of the 5th of May, 1854, on Hunt's *Light of the World*. I extract the passage bearing chiefly on the point in question.

"As far as regards the technical qualities of Mr. Hunt's painting, I would only ask the spectator to observe this difference between true Pre-Raphaelite work and its imitations. The true work represents all objects exactly as they would appear in nature, in the position and at the distances which the arrangement of the picture supposes. The false work represents them with all their details, as if seen through a microscope. Examine closely the ivy on the door in Mr. Hunt's picture, and there will not be found in it a single clear outline. All is the most exquisite mystery of colour; becoming reality at its due distance. In like manner, examine the small gems on the robe of the figure. Not one will be made out in form, and yet there is not one of all those minute points of green colour, but it has two or three distinctly varied shades of green in it, giving its mysterious value and lustre. The spurious imitations of Pre-Raphaelite work represent the most minute leaves and other objects with sharp outlines, but with no variety of colour, and with none of the concealment, none of the infinity of nature."

Not, that is to say, so far as it is *possible* to be right. No human skill can get the absolute truth in this matter; but a drawing by Turner of a large scene, and by Holman Hunt of a small one, are as close to truth as human eyes and hands can reach.

- § 9. “Well, but how of Veronese and all the firm, fearless draughtsmen of days gone by?”

They are indeed firm and fearless, but they are all mysterious. Not one great man of them, but he will puzzle you, if you look close, to know what he means. Distinct enough, as to his general intent, indeed, just as Nature is distinct in her general intent; but examine his touches, and you will find in Veronese, in Titian, in Tintoret, in Correggio, and in all the great *painters*, properly so called, a peculiar melting and mystery about the pencilling, sometimes called softness, sometimes freedom, sometimes breadth; but in reality a most subtle confusion of colours and forms, obtained either by the apparently careless stroke of the brush, or by careful retouching with tenderest labour; but always obtained in one way or another: so that though, when compared with work that has no meaning, all great work is *distinct*,—compared with work that has narrow and stubborn meaning, all great work is *indistinct*; and if we find, on examining any picture closely, that it is all clearly to be made out, it cannot be, as painting, first-rate. There is no exception to this rule. EXCELLENCE OF THE HIGHEST KIND, WITHOUT OBSCURITY, CANNOT EXIST.

- § 10. “But you said that all authority was against Turner,—Titian’s and Veronese’s, as well as that of the older painters.”

Yes, as regards his choice of misty or foggy subject, it is so; but in this matter of mere *execution*, all the great painters are with him, though at first he seems to differ from them, on account of that choice of foggy subject; and because, instead of painting things under circumstances when their general character is to be discerned at once (as Veronese paints human figures close to us and the size of life), he is always painting things twenty and thirty miles away, reduced to unintelligible and eccentric shades.

- § 11. “But how, then, of this foggy choice; can *that* be right in itself?”



That we will discuss in the next chapter: let us keep at present to the question of execution.

"Keeping to that question, why is it that a photograph always looks clear and sharp,—not at all like a Turner?"

Photographs never look entirely clear and sharp; but because clearness is supposed a merit in them, they are usually taken from very clearly marked and un-Turnerian subjects; and such results as are misty and faint, though often precisely those which contain the most subtle renderings of nature, are thrown away, and the clear ones only are preserved. Those clear ones depend for much of their force on the faults of the process. Photography either exaggerates shadows, or loses detail in the lights, and, in many ways which I do not here pause to explain, misses certain of the utmost subtleties of natural *effect* (which are often the things that Turner has chiefly aimed at), while it renders subtleties of *form* which no human hand could achieve. But a delicately taken photograph of a truly Turnerian subject, is far more like Turner in the drawing than it is to the work of any other artist; though, in the system of *chiaroscuro*, being entirely and necessarily Rembrandtesque, the subtle mystery of the touch (Turnerism carried to an infinitely wrought refinement) is not usually perceived.

§ 12. "But how of Van Eyck, and Albert Durer, and all the clear early men?"

So far as they are *quite* clear, they are imperfect, and knowingly imperfect, if considered as painters of real appearances; but by means of this very imperfection or conventionalism, they often give certain facts which are more necessary to their purpose than these outward appearances. For instance, in Fig. 2. of Plate 25., facing page 32., I requested Mr. Le Keux to facsimile, as far as might be, the look of the daguerreotype; and he has admirably done so. But if Albert Durer had drawn the wall between those towers, he would have represented it with all its facts distinctly revealed, as in Fig. 1.; and in many respects this clear statement is precious, though, so far as regards ocular truth, it is not natural. A modern sketcher of the "bold" school would represent the tower as in Fig. 3.; that is to say, in a manner just as trenchant and firm, and therefore ocularly false,

as Durer's; but, in all probability, with involved entireness of fallacy or ignorance as to the wall facts; rendering the work nearly valueless; or valuable only in colour or composition; not as draughtsmanship.

Of this we shall have more to say presently, here we may rest satisfied with the conclusion that to a perfectly great manner of painting, or to entirely finished work, a certain degree of indistinctness is indispensable. As all subjects have a mystery in *them*, so all drawing must have a mystery in *it*; and from the nearest object to the most distant, if we can quite make out what the artist would be at, there is something wrong. The strokes of paint, examined closely, must be confused, odd, incomprehensible; having neither beginning nor end, — melting into each other, or straggling over each other, or going wrong and coming right again, or fading away altogether; and if we can make anything of them quite out, that part of the drawing is wrong, or incomplete.

- § 13. Only, observe, the method by which the confusion is obtained may vary considerably according to the distance and scale of the picture itself; for very curious effects are produced upon all paintings by the distance of the eye from them. One of these is the giving a certain softness to all colours, so that hues which would look coarse or bald if seen near, may sometimes safely be left, and are left, by the great workmen in their large works, to be corrected by the kind of *bloom* which the distance of thirty or forty feet sheds over them. I say, "sometimes," because this optical effect is a very subtle one, and seems to take place chiefly on certain colours, dead fresco colours especially; also the practice of the great workmen is very different, and seems much to be regulated by the time at their disposal. Tintoret's picture of Paradise, with 500 figures in it, adapted to a supposed distance of from fifty to a hundred feet, is yet coloured so tenderly that the nearer it is approached the better it looks; nor is it at all certain that the colour which is wrong near, will look right a little way off, or even a great way off: I have never seen any of our Academy portraits made to look like Titians by being hung above the line: still,

distance *does* produce a definite effect on pictorial colour, and in general an improving one. It also deepens the relative power of all strokes and shadows. A touch of shade which, seen near, is all but invisible, and, as far as effect on the picture is concerned, quite powerless, will be found, a little way off, to tell as a definite shadow, and to have a notable result on all that is near it; and so markedly is this the case, that in all fine and first-rate drawing there are many passages in which if we *see* the touches we are putting on, we are doing too much; they must be put on by the feeling of the hand only, and have their effect on the eye when seen in unison, a little way off. This seems strange; but I believe the reason of it is, that, seen at some distance, the parts of the touch or touches are gathered together, and their relations truly shown; while, seen near, they are scattered and confused. On a large scale, and in common things, the phenomenon is of constant occurrence; the "dirt bands" on a glacier, for instance, are not to be counted on the glacier itself, and yet their appearance is truly stated by Professor Forbes to be "*one of great importance, though from the two circumstances of being best seen at a distance, or considerable height, and in a feeble or slanting light, it had very naturally been overlooked both by myself and others, like what are called blind paths over moors, visible at a distance, but lost when we stand upon them.*"<sup>1</sup>

- § 14. Not only, however, does this take place in a picture very notably, so that a group of touches will tell as a compact and intelligible mass, a little way off, though confused when seen near; but also a dark touch gains at a little distance in apparent *darkness*, a light touch in apparent *light*, and a coloured touch in apparent colour, to a degree inconceivable by an unpractised person; so that literally, a good painter is obliged, working near his picture, to do in everything only about half of what he wants, the rest being done by the distance. And if the effect, at such distance, is to be of confusion, then sometimes, seen near, the work must be a confusion worse confounded,

<sup>1</sup> Travels through the Alps, chap. viii.

almost utterly unintelligible: hence the amazement and blank wonder of the public at some of the finest passages of Turner, which look like a mere meaningless and disorderly work of chance; but, rightly understood, are preparations for a given result, like the most subtle moves of a game of chess, of which no bystander can for a long time see the intention, but which are, in dim, underhand, wonderful way, bringing out their foreseen and inevitable result.

- § 15. And, be it observed, no other means would have brought out that result. Every distance and size of picture has its own proper method of work; the artist will necessarily vary that method somewhat according to circumstances and expectations: he may sometimes finish in a way fitted for close observation, to please his patron, or catch the public eye; and sometimes be tempted into such finish by his zeal, or betrayed into it by forgetfulness, as I think Tintoret has been, slightly, in his *Paradise*, above mentioned. But there never yet was a picture thoroughly effective at a distance, which did not look more or less unintelligible near. Things which in distant effect are folds of dress, seen near are only two or three grains of golden colour set there apparently by chance; what far off is a solid limb, near, is a grey shade with a misty outline, so broken that it is not easy to find its boundary; and what far off may perhaps be a man's face, near, is only a piece of thin brown colour, enclosed by a single flowing wave of a brush loaded with white, while three brown touches across one edge of it, ten feet away, become a mouth and eyes. The more subtle the power of the artist, the more curious the difference will be between the apparent means and the effect produced; and one of the most sublime feelings connected with art consists in the perception of this very strangeness, and in a sympathy with the foreseeing and foreordaining power of the artist. In Turner, Tintoret, and Paul Veronese, the intenseness of perception, first, as to what is to be done, and then, of the means of doing it, is so colossal, that I always feel in the presence of their pictures just as other people would in that of a supernatural being. Common talkers use the word "magic" of a great

painter's power without knowing what they mean by it. They mean a great truth. That power *is* magical; so magical, that, well understood, no enchanter's work could be more miraculous or more *appalling*; and though I am not often kept from saying things by timidity, I should be afraid of offending the reader, if I were to define to him accurately the kind and the degree of awe, with which I have stood before Tintoret's Adoration of the Magi, at Venice, and Veronese's Marriage in Cana, in the Louvre.

- § 16. It will now, I hope, be understood how easy it is for dull artists to mistake the mystery of great masters for carelessness, and their subtle concealment of intention for want of intention. For one person who can perceive the delicacy, invention, and veracity of Tintoret or Reynolds<sup>1</sup> there are thousands who can perceive the dash of the brush and the confusion of the colour. They suppose that the merit consists in dash and confusion, and that they may easily rival Reynolds by being unintelligible, and Tintoret by being impetuous. But I assure them, very seriously, that obscurity is *not* always admirable, nor impetuosity always right; that disorder does not necessarily imply discretion, nor haste, security. It is sometimes difficult to understand the words of a deep thinker; but it is equally difficult to understand an idiot; and young students will find it, on the whole, the best thing they can do to strive to be *clear*<sup>2</sup>; not affectedly clear, but manfully and firmly. Mean something, and say something, whenever you touch canvass; yield neither to the affectation of precision nor of speed, and trust to time, and your honest labour, to invest your work gradually, in such measure and kind as your genius can reach, with the tenderness that comes of love, and the mystery that comes of power.

<sup>1</sup> Reynolds is usually admired for his dash and speed. His true merit is in an ineffable subtlety combined with this speed. The tenderness of some of Reynolds' touches is quite beyond telling.

<sup>2</sup> Especially in distinction of species of things. It may be doubtful whether in a great picture we are to represent the bloom upon a grape, but never doubtful that we are to paint a grape so as to be known from a cherry.

## CHAPTER V.

## OF TURNERIAN MYSTERY:—SECONDLY, WILFUL.

- § 1. IN the preceding chapter we were concerned only with the mystery necessary in all great art. We have yet to inquire into the nature of that more special love of concealment in which Turner is the leading representative of modern cloud-worship; causing Dr. Waagen sapiently to remark that "he" had here succeeded in combining "a crude painted medley with a general foggy appearance."<sup>1</sup>

As, for defence of his universal indistinctness, my appeal was in the last chapter to universal fact, so, for defence of this special indistinctness, my first appeal is in this chapter to special fact. An English painter justifiably loves fog, because he is born in a foggy country; as an Italian painter justifiably loves clearness, because he is born in a comparatively clear country. I have heard a traveller familiar with the East complain of the effect in a picture of Copley Fielding's, that "it was such very bad weather." But it ought not to be bad weather to the English. Our green country depends for its life on those kindly rains and floating swirls of cloud; we ought, therefore, to love them, and to paint them.

- § 2. But there is no need to rest my defence on this narrow English ground. The fact is, that though the climates of the South and East may be *comparatively* clear, they are no more absolutely clear than our own northern air; and that wherever a landscape-painter is placed, if he paints faithfully, he will have

<sup>1</sup> Art and Artists in England, vol. ii. p. 161. The other characteristics which Dr. Waagen discovers in Turner are, "such a looseness of treatment, such a total want of truth, as I never before met with."

continually to paint effects of mist. Intense clearness, whether in the North after or before rain, or in some moments of twilight in the South, is always, as far I am acquainted with natural phenomena, a *notable* thing. Mist of some sort, or mirage, or confusion of light, or of cloud, are the general facts; the distance may vary in different climates at which the effects of mist begin, but they are always present; and therefore, in all probability it is meant that we should enjoy them.

§ 3. Nor does it seem to me in any wise difficult to understand why they should be thus appointed for enjoyment. In former parts of this work we were able to trace a certain delightfulness in every visible feature of natural things which was typical of any great spiritual truth; surely, therefore, we need not wonder now, that mist and all its phenomena have been made delightful to us, since our happiness as thinking beings must depend on our being content to accept only partial knowledge, even in those matters which chiefly concern us. If we insist upon perfect intelligibility and complete declaration in every moral subject, we shall instantly fall into misery of unbelief. Our whole happiness and power of energetic action depend upon our being able to breathe and live in the cloud; content to see it opening here and closing there; rejoicing to catch, through the thinnest films of it, glimpses of stable and substantial things; but yet perceiving a nobleness even in the concealment, and rejoicing that the kindly veil is spread where the untempered light might have scorched us, or the infinite clearness wearied.

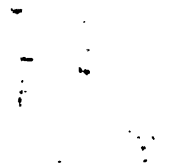
§ 4. And I believe that the resentment of this interference of the mist is one of the forms of proud error which are too easily mistaken for virtues. To be content in utter darkness and ignorance is indeed unmanly, and therefore we think that to love light and seek knowledge must always be right. Yet (as in all matters before observed), wherever *pride* has any share in the work, even knowledge and light may be ill pursued. Knowledge is good, and light is good, yet man perished in seeking knowledge, and moths perish in seeking light; and if we, who are crushed before the moth, will not accept such mystery as is needful for us, we shall perish in like manner. But,

accepted in humbleness, it instantly becomes an element of pleasure; and I think that every rightly constituted mind ought to rejoice, not so much in knowing anything clearly, as in feeling that there is infinitely more which it cannot know. None but proud or weak men would mourn over this, for we may always know more if we choose, by working on; but the pleasure is, I think, to humble people, in knowing that the journey is endless, the treasure inexhaustible, — watching the cloud still march before them with its summitless pillar, and being sure that, to the end of time and to the length of eternity, the mysteries of its infinity will still open farther and farther, their dimness being the sign and necessary adjunct of their inexhaustibleness. I know there are an evil mystery and a deathful dimness, — the mystery of the great Babylon — the dimness of the sealed eye and soul; but do not let us confuse these with the glorious mystery of the things which the angels “desire to look into,” or with the dimness which, even before the clear eye and open soul, still rests on sealed pages of the eternal volume.

- § 5. And going down from this great truth to the lower truths which are types of it in smaller matters, we shall find, that as soon as people try honestly to see all they can of anything, they come to a point where a noble dimness begins. They see more than others; but the consequence of their seeing more is, that they feel they cannot see all; and the more intense their perception, the more the crowd of things which they *partly* see will multiply upon them; and their delight may at last principally consist in dwelling on this cloudy part of their prospect, somewhat casting away or aside what to them has become comparatively common, but is perhaps the sum and substance of all that other people see in the thing, for the utmost subtleties and shadows and glancings of it cannot be caught but by the most practised vision. And as a delicate ear rejoices in the slighter and more modulated passages of sound which to a blunt ear are utterly monotonous in their quietness, or unintelligible in their complication, so, when the eye is exquisitely keen and clear, it is fain to rest on grey films of shade, and wandering rays of light, and intricacies of tender form,







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# 26. The Law of Evanesence.





passing over hastily, as unworthy or commonplace, what to a less educated sense appears the whole of the subject.<sup>1</sup> In painting, this progress of the eye is marked always by one consistent sign—its sensibility, namely, to effects of *gradation* in light and colour, and habit of looking for them, rather even than for the signs of the essence of the subject. It will, indeed, see more of that essence than is seen by other eyes; and its choice of the points to be seized upon will be always regulated by that special sympathy which we have above examined as the motive of the Turnerian picturesque; but yet, the more it is cultivated, the more of light and colour it will perceive, the less of substance.

§ 6. Thus, when the eye is quite uncultivated, it sees that a man is a man, and a face is a face, but has no idea what shadows or lights fall upon the form or features. Cultivate it to some degree of artistic power, and it will then see shadows distinctly, but only the more vigorous of them. Cultivate it still farther, and it will see light within light, and shadow within shadow, and will continually refuse to rest in what it had already discovered, that it may pursue what is more removed and more subtle, until at last it comes to give its chief attention and display its chief power on gradations which to an untrained faculty are partly matters of indifference, and partly imperceptible. That these subtle gradations have indeed become matters of primal importance to it, may be ascertained by observing that they are the things it will last part with, as the object retires into distance; and that, though this distance may become so great as to render the real nature of the object quite undiscernible, the gradations of light upon it will not be lost.

§ 7. For instance, Fig. 1., on the opposite page, Plate 26., is a tolerably faithful rendering of the look of a wall tower of a Swiss town as it would be seen within some hundred yards of it. Fig. 2. is (as nearly as I can render it) a facsimile of Turner's actual drawing of this tower, at a presumed distance of about half a

<sup>1</sup> And yet, all these intricacies will produce for it another whole; as simple and natural as the child's first conception of the thing; only more comprehensive. See above, Chap. III. § 21.

mile. It has far less of intelligible delineation, either of windows, cornices, or tiles; but intense care has still been given to get the pearly roundness of the side, and the exact relations of all the tones of shade. And now, if Turner wants to remove the tower still farther back, he will gradually let the windows and stones all disappear together, before he will quit his shadows and delicately centralized rays. At Fig. 3. the tower is nearly gone, but the pearly roundness of it and principal lights of it are there still. At Fig. 4. (Turner's ultimate condition in distance) the essence of the thing is quite unintelligible; we cannot answer for its being a tower at all. But the gradations of light are still there, and as much pains have been taken to get them as in any of the other instances. A vulgar artist would have kept something of the form of the tower, expressing it by a few touches; and people would call it clever drawing. Turner lets the tower melt into air, but still he works half an hour or so over those delicate last gradations, which perhaps not many people in England besides himself can fully see, as not many people can understand the final work of a great mathematician. I assume, of course, in this example, that the tower, as it grows less and less distinct, becomes part of the subject of a *larger* picture. Fig. 1. represents nearly what Turner's treatment of it would be if it were the principal subject of a vignette; and Fig. 4. his treatment of it as an object in the extreme distance of a large oil picture. If at the same supposed distance it entered into a smaller drawing, so as to be much smaller in size, he might get the gradations with less trouble, sometimes even by a single sweep of the brush; but *some* gradation would assuredly be retained, though the tower were diminished to the height of one of the long letters of this type."

§ 8. "But is Turner right in doing this?"

Yes. The truth is indeed so. If you watch any object as it fades in distance, it will lose gradually its force, its intelligibility, its anatomy, its whole comprehensible being; but it will *never* lose its gradation of light. Up to the last moment, what light is seen on it, feebly glimmering and narrowed almost to a point or a line, is still full of change. One part is brighter than

another, and brighter with as lovely and tender increase as it was when nearest to us; and at last, though a white house ten miles away will be seen only as a small square spot of light, its windows, doors, or roof being as utterly invisible as if they were not in existence, the gradation of its light will not be lost; one part of the spot will be seen to be brighter than another.

§ 9. Is there not a deep meaning in this? We, in our daily looking at the thing, think that its own make is the most important part of it. Windows and porticos, eaves and cornices, how interesting or how useful are they! Surely, the chief importance of the thing is in these. No; not in these; but in the play of the light of heaven upon it. There is a place and time when all those windows and porticos will be lost sight of; when the only question becomes, "what light had it?" How much of heaven was looking upon it? What were the broad relations of it, in light and darkness, to the sky and earth, and all things around it? It might have strange humours and ways of its own—many a rent in its wall, and many a roughness on its roof; or it might have many attractivenesses and noblenesses of its own—fair mouldings and gay ornaments; but the time comes when all these are vain, and when the slight, wandering warmth of heaven's sunshine which the building itself felt not, and not one eye in a thousand saw, becomes all in all. I leave the reader to follow out the analogies of this.

§ 10. "Well, but," it is still objected, "if this be so, why is it necessary to insist, as you do always, upon the most minute and careful renderings of form?"

Because, though these gradations of light are indeed, as an object dies in distance, the only things it can retain, yet as it lives its active life near us, those very gradations can only be seen properly by the effect they have on its character. You can only show how the light affects the object, by knowing thoroughly what the object is; and noble mystery differs from ignoble, in being a veil thrown between us and something definite, known, and substantial; but the ignoble mystery is a veil cast before chaos, the studious concealment of Nothing.

§ 11. There is even a way in which the very definiteness of

Turner's knowledge adds to the mystery of his pictures. In the course of the first volume I had several times occasion to insist on the singular importance of cast shadows, and the chances of their sometimes gaining supremacy in visibility over even the things that cast them. Now a cast shadow is a much more curious thing than we usually suppose. The strange shapes it gets into,—the manner in which it stumbles over everything that comes in its way, and frets itself into all manner of fantastic schism, taking neither the shape of the thing that casts it, nor of that it is cast upon, but an extraordinary, stretched, flattened, fractured, ill-jointed anatomy of its own,—cannot be imagined until one is actually engaged in shadow-hunting. If any of these wayward umbræ are faithfully remembered and set down by the painter, they nearly always have an unaccountable look, quite different from anything one would have invented or philosophically conjectured for a shadow; and it constantly happens, in Turner's distances, that such strange pieces of broken shade, accurately remembered, or accurately invented, as the case may be, cause a condition of unintelligibility, quaint and embarrassing almost in exact proportion to the amount of truth it contains.

- § 12. I believe the reader must now sufficiently perceive that the right of being obscure is not one to be lightly claimed; it can only be founded on long effort to be intelligible, and on the present power of *being* intelligible to the exact degree which the nature of the thing admits. Nor shall we, I hope, any more have difficulty in understanding how the noble mystery and the ignoble, though direct opposites, are yet continually mistaken for each other—the last aping the first; and the most wretched artists taking pride in work which is simply slurred, slovenly, ignorant, empty, and insolent, as if it were nobly mysterious (just as a drunkard who cannot articulate supposes himself oracular); whereas the noble art-mystery, as all noble language-mystery, is reached only by intense labour. Striving to speak with uttermost truth of expression, weighing word against word, and wasting none, the great speaker, or writer, toils first into perfect intelligibleness, then, as he reaches to higher subject, and still more concentrated and wonderful utterance, he becomes ambiguous—



as Dante is ambiguous,—half a dozen different meanings lightening out in separate rays from every word, and, here and there, giving rise to much contention of critics as to what the intended meaning actually was. But it is no drunkard's babble for all that, and the men who think it so, at the third hour of the day, do not highly honour *themselves* in the thought.

§ 13. And now observe how perfectly the conclusions arrived at here consist with those of the third chapter, and how easily we may understand the meaning of that vast weight of authority which we found at first ranged against the clouds, and strong in arms on the side of intelligibility. Nearly all great men must, for the reasons above given, be intelligible. Even, if they are to be the greatest, still they must struggle through intelligibility to obscurity; if of the second class, then the best thing they can do, all their lives through, is to be intelligible. Therefore, the enormous majority of all good and true men will be *clear* men; and the drunkards, sophists, and sensualists will, for the most part, sink back into the fog-bank, and remain wrapt in darkness, unintelligibility, and futility. Yet, here and there, once in a couple of centuries, one man will rise past clearness, and become dark with excess of light.

§ 14. "Well, then, you mean to say that the tendency of this age to general cloudiness, as opposed to the old religious clearness of painting, is one of degradation; but that Turner is this one man who has risen *past* clearness?"

Yes. With some modifications of the saying, I mean that; but those modifications will take us a little time to express accurately.

For, first, it will not do to condemn every minor painter utterly, the moment we see he is foggy. Copley Fielding, for instance, was a minor painter; but his love of obscurity in rain clouds, and dew-mist on downs, was genuine love, full of sweetness and happy aspiration; and, in this way, a little of the light of the higher mystery is often caught by the simplest men when they keep their hearts open.

§ 15. Neither will it be right to set down every painter for a great man, the moment we find he is clear; for there is a hard and vulgar intelligibility of nothingness, just as there is an ambiguity

of nothingness. And as often, in conversation, a man who speaks but badly and indistinctly has, nevertheless, got much to say; and a man who speaks boldly and plainly may yet say what is little worth hearing; so, in painting, there are men who can express themselves but blunderingly, and yet have much in them to express; and there are others who talk with great precision, whose works are yet very impertinent and untrustworthy assertions. Sir Joshua Reynolds is full of fogginess and shortcomings as compared with either of the Caraccis; but yet one Sir Joshua is worth all the Caraccis in Europe; and so, in our modern water-colour societies, there are many men who define clearly enough, all whose works, put together, are not worth a careless blot by Cox or Barrett.

- § 16. Let me give one illustration more, which will be also of some historical usefulness in marking the relations of the clear and obscure schools.

We have seen, in our investigation of Greek landscape, Homer's intense love of the aspen poplar. For once, in honour of Homer and the Greeks, I will take an aspen for the subject of comparison, and glance at the different modes in which it would have been, or was, represented from the earliest to the present stage of landscape art.

The earliest manner which comes within our field of examination is that of the thirteenth century. Fig. 1. Plate 27. is an aspen out of the wood in which Absalom is slain, from a Psalter in my own possession, executed, certainly, after the year 1250, and before 1272: the other trees in the wood being, first, of course, the oak in which Absalom is caught, and a sycamore. All these trees are somewhat more conventional than is even usual at the period; though, for this reason, the more characteristic as examples of earliest work. There is no great botanical accuracy until some forty years later (at least in painting); so that I cannot be quite sure, the leaf not being flat enough at the base, that this tree is meant for an aspen: but it is so in all probability; and, whether it be or not, serves well enough to mark the definiteness and symmetry of the old art,—a symmetry which, be it always observed, is NEVER formal or unbroken.





1. Ancient, or Giottesque.



4. Modern, or Blottesque.



2. Purist



5. Constablesque.



3. Turner-esque.



6. Hardingesque.

Turner &c

J. Cousen.





This tree, though it looks formal enough, branches unequally at the top of the stem. But the lowest figure in Plate 7. Vol. III. is a better example from the MS. Sloane, 1975., Brit. Mus. Every plant in that herbarium is drawn with some approach to accuracy, in leaf, root, and flower; while yet all are subjected to the sternest conventional arrangement; coloured in almost any way that pleases the draughtsman, and set on quaint grounds of barred colour, like bearings on shields<sup>1</sup>; one side of the plant always balancing the other, but never without some transgression or escape from the law of likeness, as in the heads of the cyclamen flower, and several other parts of this design. It might seem at first, that the root was more carelessly drawn than the rest, and uglier in colour; but this is in pure conscientiousness. The workman knew that a root was ugly and earthy; he would not make it ornamental and delicate. He would sacrifice his pleasant colours and graceful lines at once for the radical fact; and rather spoil his page than flatter a fibre.

- § 17. Here, then, we have the first mediæval condition of art, consisting in a fenced, but varied, symmetry; a perfect definiteness; and a love of nature, more or less interfered with by conventionalism and imperfect knowledge. Fig. 2. in Plate 27. represents the next condition of mediæval art, in which the effort at imitation is contending with the conventional type. This aspen is from the MS. Cotton, Augustus, A. 5., from which I have already taken an example of rocks to compare with Leonardo's. There can be no doubt here about the species of the tree intended, as throughout the MS. its illuminator has carefully distinguished the oak, the willow, and the aspen; and this example, though so small (it is engraved of the actual size), is very characteristic of the aspen ramification; and in one point, of ramification in general, namely, the division of the tree into two masses, each branching outwards, not across each other. Whenever a tree divides at first into two or three nearly equal main branches, the

<sup>1</sup> Compare Vol. III. Chap. XIV. § 13. Touching the exact degree in which ignorance or incapacity is mingled with wilful conventionalism in this drawing, we shall inquire in the chapters on Vegetation.

secondary branches always spring from the outside of the divided ones, just as, when a tree grows under a rock or wall, it shoots away from it, never towards it. The beautiful results of this arrangement we shall trace in the next volume; meantime in the next Plate (28.) I have drawn the main<sup>1</sup> ramifications of a real aspen, growing freely, but in a sheltered place, as far as may be necessary to illustrate the point in question.

- § 18. This example, Fig. 2. in Plate 27., is sufficiently characteristic of the purist mediæval landscape, though there is somewhat more leaning to naturalism than is usual at the period. The next example, Fig. 3., is from Turner's vignette of St. Anne's Hill (Rogers's Poems, p. 214.). Turner almost always groups his trees, so that I have had difficulty in finding one on a small scale and isolated, which would be characteristic of him; nor is this one completely so, for I had no access to the original vignette, it being, I believe, among the drawings that have been kept from the public, now these four years, because the Chancery lawyers do not choose to determine the meaning of Turner's perfectly intelligible, though informal, will; and Mr. Goodall's engraving, which I have copied, though right in many respects, is not representative of the dotted touch by which Turner expressed the aspen foliage. I have not, however, ventured to alter it, except only by adding the extremities where they were hidden in the vignette by the trelliswork above.

The principal difference between the Turnerian aspen and the purist aspen is, it will be seen, in the expression of lightness and confusion of foliage, and roundness of the tree as a mass; while the purist tree, like the thirteenth century one, is still flat. All attempt at the expression of individual leaves is now gone, the tree being too far off to justify their delineation; but the direction of the light, and its gradations, are carefully studied.

- § 19. Fig. 4. is a tolerable facsimile<sup>2</sup> of a little chalk sketch of Hard-

<sup>1</sup> Only the *main* lines; the outer sprays have had no pains taken with them, as I am going to put some leaves on them in next volume.

<sup>2</sup> It is quite impossible to facsimile good free work. Both Turner and Harding suffer grievously in this plate.









J Ruskin

J C Armistead

28. Aspen, Unidealized .



ing's; quite inimitable in the quantity of life and truth obtained by about a quarter of a minute's work; but beginning to show the faulty vagueness and carelessness of modernism. The stems, though beautifully free, are not thoroughly drawn nor rounded; and in the mass of the tree, though well formed, the tremulousness and transparency of leafage are lost. Nor is it possible, by Harding's manner of drawing, to express such ultimate truths; his execution, which, *in its way*, no one can at all equal (the best chalk drawing of Calame and other foreign masters being quite childish and feeble in comparison), is yet sternly limited in its reach, being originally based on the assumption that nothing is to be delicately drawn, and that the method is only good which insures specious incompleteness.

It will be observed, also, that there is a leaning first to one side, then to the other, in Harding's aspen, which marks the wild picturesqueness of modernism as opposed to the quiet but stiff dignity of the purist (Fig. 2.); Turner occupying exactly the intermediate place.

The next example (Fig. 5.) is an aspen of Constable's, on the left in the frontispiece to Mr. Leslie's life of him. Here we have arrived at the point of total worthlessness, the tree being as flat as the old purist one, but, besides, wholly false in ramification, idle, and undefined in every respect; it being, however, just possible still to discern what the tree is meant for, and therefore the type of the worst modernism not being completely established.

§ 20. Fig. 6. establishes this type, being the ordinary condition of tree-treatment in our blotted water-colour drawings; the nature of the tree being entirely lost sight of, and no accurate knowledge, of any kind, possessed or communicated.

Thus, from the extreme of definiteness and light, in the thirteenth century (the middle of the Dark Ages!), we pass to the extreme of uncertainty and darkness, in the middle of the nineteenth century.

As, however, the definite mediæval work has some faults, so the indefinite modern work has some virtues, its very uncertainty enabling it to appeal pleasantly to the imagination (though in an

inky manner, as described above, Vol. III. Chap. x. § 10.), and sometimes securing qualities of colour which could no otherwise be obtained. It ought, however, if we would determine its true standing, to be compared, not with the somewhat forced and narrow decision of the thirteenth century, but with the perfect and well-informed decision of Albert Durer and his fellow-workmen. For the proper representation of these there was no room in this plate; so in Plate 25., above, on each side of the daguerre-typed towers of Fribourg, I have given, Fig. 1., a Dureresque, and Fig. 3. a Blottesque, version of the intermediate wall. The latter version may, perhaps, be felt to have some pleasantness in its apparent ease; and it has a practical advantage, in its capability of being executed in a quarter of a minute, while the Dureresque statement *cannot* be made in less than a quarter of an hour. But the latter embraces not only as much as is worth the extra time, but even an infinite of contents, beyond and above the other, for the other is in no single place clear in its assertion of *anything*; whereas the Dureresque work, asserting clearly many most interesting facts about the grass on the ledges, the bricks of the windows, and the growth of the foliage, is for ever a useful and trustworthy record; the other for ever an empty dream. If it is a beautiful dream, full of lovely colour and good composition, we will not quarrel with it; but it can never be so, unless it is founded first on the Dureresque knowledge, and suggestive of it, through all its own mystery or incompleteness. So that by all students the Dureresque is the manner to be first adopted, and calmly continued as long as possible; and if their inventive instincts do not, in after life, *force* them to swifter or more cloudy execution,—if at any time it becomes a matter of doubt with them how far to surrender their gift of accuracy,—let them be assured that it is best always to err on the side of clearness; to live in the illumination of the thirteenth century rather than the mysticism of the nineteenth, and vow themselves to the cloister rather than lose themselves in the desert.

- § 21. I am afraid the reader must be tired of this matter; and yet there is one question more which I must for a moment touch upon, in conclusion, namely, the mystery of *clearness itself*. In

an Italian twilight, when, sixty or eighty miles away, the ridge of the Western Alps rises in its dark and serrated blue against the crystalline vermillion, there is still unsearchableness, but an unsearchableness without cloud or concealment,—an infinite unknown, but no sense of any veil or interference between us and it: we are separated from it, not by any anger of storm, not by any vain and fading vapour, but only by the deep infinity of the thing itself. I find that the great religious painters rejoiced in that kind of unknowableness, and in that only; and I feel that even if they had had all the power to do so, still they would not have put rosy mists and blue shadows behind their sacred figures, but only the far-away sky and cloudless mountains. Probably the right conclusion is that the clear and cloudy mysteries are alike noble; but that the beauty of the wreaths of frost mist, folded over banks of greensward deep in dew, and of the purple clouds of evening, and the wreaths of fitful vapour gliding through groves of pine, and irised around the pillars of waterfalls, is more or less typical of the kind of joy which we should take in the imperfect knowledge granted to the earthly life, while the serene and cloudless mysteries set forth that belonging to the redeemed life. But of one thing I am well assured, that so far as the clouds are regarded, not as concealing the truth of other things, but as themselves true and separate creations, they are not usually beheld by us with enough honour; we have too great veneration for cloudlessness. My reasons for thinking this I will give in the next chapter; here we have, I believe, examined as far as necessary the general principles on which Turner worked, and justified his adoption of them so far as they contradicted preceding practice.

It remains for us to trace, with more observant patience, the ground which was marked out in the first volume; and, whereas in that volume we hastily compared the truth of Turner with that of preceding landscapists, we shall now, as closely as possible, examine the range of what he himself has done and felt, and the way in which it is likely to influence the future acts and thoughts of men.

§ 22. And I shall attempt to do this, first, by examining what the real  
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effect of the things painted—clouds, or mountains, or whatever else they may be—is, or ought to be, in general, on men's minds, showing the grounds of their beauty or impressiveness as best I can; and then examining how far Turner seems to have understood these reasons of beauty, and how far his work interprets, or can take the place of nature. But in doing this, I shall, for the sake of convenience, alter the arrangement which I followed in the first volume; and, instead of examining the sky first, treat of it last; because, in many illustrations which I must give of other things, I shall have to introduce pieces of sky background which will all be useful for reference when I can turn back to them from the end of the book, but which I could not refer to in advance without anticipating all my other illustrations. Nevertheless, some points which I have to note respecting the meaning of the sky are so intimately connected with the subjects we have just been examining, that I cannot properly defer their consideration to another place; and I shall state them, therefore, in the next chapter, afterwards proceeding, in the order I adopted in the first volume, to examine the beauty of mountains, water, and vegetation.



## CHAPTER VI.

## THE FIRMAMENT.

- § 1. THE task which we now enter upon, as explained in the close of the preceding chapter, is the ascertaining as far as possible what the proper effect of the natural beauty of different objects *ought* to be on the human mind, and the degree in which this nature of theirs, and true influence, have been understood and transmitted by Turner.

I mean to begin with the mountains, for the sake of convenience in illustration; but, in the proper order of thought, the clouds ought to be considered first; and I think it will be well, in this intermediate chapter, to bring to a close that line of reasoning by which we have gradually, as I hope, strengthened the defences around the love of mystery which distinguishes our modern art; and to show, on final and conclusive authority, what noble things these clouds are, and with what feeling it seems to be intended by their Creator that we should contemplate them.

- § 2. The account given of the stages of Creation in the first chapter of Genesis, is in every respect clear and intelligible to the simplest reader, except in the statement of the work of the second day. I suppose that this statement is passed over by careless readers without an endeavour to understand it; and contemplated by simple and faithful readers as a sublime mystery, which was not intended to be understood. But there is no mystery in any other part of the chapter, and it seems to me unjust to conclude that any was intended here.

And the passage ought to be peculiarly interesting to us, as

being the first in the Bible in which the *heavens* are named, and the only one in which the word "Heaven," all important as that word is to our understanding of the most precious promises of Scripture, receives a definite explanation.

Let us, therefore, see whether, by a little careful comparison of the verse with other passages in which the word occurs, we may not be able to arrive at as clear an understanding of this portion of the chapter as of the rest.

- § 3. In the first place, the English word "Firmament" itself is obscure and useless; because we never employ it but as a synonym of heaven; it conveys no other distinct idea to us; and the verse, though from our familiarity with it we imagine that it possesses meaning, has in reality no more point or value than if it were written, "God said, let there be a something in the midst of the waters, and God called the something Heaven."

But the marginal reading, "Expansion," has definite value; and the statement that "God said, let there be an expansion in the midst of the waters, and God called the expansion Heaven," has an apprehensible meaning.

- § 4. Accepting this expression as the one intended, we have next to ask what expansion there is, between two waters, describable by the term Heaven. Milton adopts the term "expans<sup>1</sup>;" but he understands it of the whole volume of the air which surrounds the earth. Whereas, so far as we can tell, there is no water beyond the air, in the fields of space; and the whole expression of division of waters from waters is thus rendered valueless.

- § 5. Now, with respect to this whole chapter, we must remember always that it is intended for the instruction of all mankind, not for the learned reader only; and that, therefore, the most simple and natural interpretation is the likeliest in general to be the

<sup>1</sup> "God made  
The firmament, expanse of liquid, pure,  
Transparent, elemental air, diffused  
In circuit to the uttermost convex  
Of this great round."

*Paradise Lost*, book vii.

true one. An unscientific reader knows little about the manner in which the volume of the atmosphere surrounds the earth; but I imagine that he could hardly glance at the sky when rain was falling in the distance, and see the level line of the bases of the clouds from which the shower descended, without being able to attach an instant and easy meaning to the words "Expansion in the midst of the waters." And if, having once seized this idea, he proceeded to examine it more accurately, he would perceive at once, if he had ever noticed *anything* of the nature of clouds, that the level line of their bases did indeed most severely and stringently divide "waters from waters," that is to say, divide water in its collective and tangible state, from water in its divided and aerial state; or the waters which *fall* and *flow*, from those which *rise* and *float*. Next, if we try this interpretation in the theological sense of the word *Heaven*, and examine whether the clouds are spoken of as God's dwelling-place, we find God going before the Israelites in a pillar of cloud; revealing Himself in a cloud on Sinai; appearing in a cloud on the mercy seat, filling the Temple of Solomon with the cloud when its dedication is accepted; appearing in a great cloud to Ezekiel; ascending into a cloud before the eyes of the disciples on Mount Olivet; and in like manner returning to Judgment. "Behold, he cometh with clouds, and every eye shall see him." "Then shall they see the son of man coming in the clouds of heaven, with power and great glory."<sup>1</sup> While farther, the "clouds" and "heavens" are used as interchangeable words in those Psalms which most distinctly set forth the power of God: "He bowed the heavens also, and came down; he made darkness pavilions round about him, dark waters, and thick clouds of the skies." And, again: "Thy mercy, oh Lord, is in the heavens, and thy faithfulness reacheth unto the clouds." And, again: "His excellency is over Israel, and his strength is in the clouds." Again: "The clouds poured out water, the skies

<sup>1</sup> The reader may refer to the following texts, which it is needless to quote: Exod. xiii. 21. xvi. 10. xix. 9. xxiv. 16. xxxiv. 5., Levit. xvi. 2., Num. x. 34., Judges v. 4., 1 Kings viii. 10., Ezek. i. 4., Dan. vii. 13., Matt. xxiv. 30., 1 Thess. iv. 17., Rev. i. 7.

sent out a sound, the voice of thy thunder was in the heaven." Again: "Clouds and darkness are round about him, righteousness and judgment are the habitation of his throne; the heavens declare his righteousness, and all the people see his glory."

§ 6. In all these passages the meaning is unmistakeable, if they possess definite meaning at all. We are too apt to take them merely for sublime and vague imagery, and therefore gradually to lose the apprehension of their life and power. The expression, "He bowed the heavens," for instance, is, I suppose, received by most readers as a magnificent hyperbole, having reference to some peculiar and fearful manifestation of God's power to the writer of the Psalm in which the words occur. But the expression either has plain meaning, or it has *no* meaning. Understand by the term "Heavens" the compass of infinite space around the earth, and the expression, "bowed the Heavens," however sublime, is wholly without meaning; infinite space cannot be bent or bowed. But understand by the "Heavens" the veil of clouds above the earth, and the expression is neither hyperbolical nor obscure; it is pure, plain, and accurate truth, and it describes God, not as revealing Himself in any peculiar way to David, but doing what He is still doing before our own eyes day by day. By accepting the words in their simple sense, we are thus led to apprehend the immediate presence of the Deity, and His purpose of manifesting Himself as near us whenever the storm-cloud stoops upon its course; while by our vague and inaccurate acceptance of the words we remove the idea of His presence far from us, into a region which we can neither see nor know; and gradually, from the close realization of a living God who "maketh the clouds his chariot," we refine and explain ourselves into dim and distant suspicion of an inactive God, inhabiting inconceivable places, and fading into the multitudinous formalisms of the laws of Nature.

§ 7. All errors of this kind—and in the present day we are in constant and grievous danger of falling into them—arise from the originally mistaken idea that man can, "by searching, find out God—find out the Almighty to perfection;" that is to say, by help of courses of reasoning and accumulations of science, appre-

hend the nature of the Deity in a more exalted and more accurate manner than in a state of comparative ignorance; whereas it is clearly necessary, from the beginning to the end of time, that God's way of revealing Himself to His creatures should be a *simple* way, which *all* those creatures may understand. Whether taught or untaught, whether of mean capacity or enlarged, it is necessary that communion with their Creator should be possible to all; and the admission to such communion must be rested, not on their having a knowledge of astronomy, but on their having a human soul. In order to render this communion possible, the Deity has stooped from His throne, and has not only, in the person of the Son, taken upon Him the veil of our human *flesh*, but, in the person of the Father, taken upon Him the veil of our human *thoughts*, and permitted us, by His own spoken authority, to conceive Him simply and clearly as a loving Father and Friend;—a being to be walked with and reasoned with; to be moved by our entreaties, angered by our rebellion, alienated by our coldness, pleased by our love, and glorified by our labour; and, finally, to be beheld in immediate and active presence in all the powers and changes of creation. This conception of God, which is the child's, is evidently the only one which can be universal, and therefore the only one which *for us* can be true. The moment that, in our pride of heart, we refuse to accept the condescension of the Almighty, and desire Him, instead of stooping to hold our hands, to rise up before us into His glory,—we hoping that by standing on a grain of dust or two of human knowledge higher than our fellows, we may behold the Creator as He rises,—God takes us at our word; He rises, into His own invisible and inconceivable majesty; He goes forth upon the ways which are not our ways, and retires into the thoughts which are not our thoughts; and we are left alone. And presently we say in our vain hearts, “There is no God.”

- § 8. I would desire, therefore, to receive God's account of His own creation as under the ordinary limits of human knowledge and imagination it would be received by a simply minded man; and finding that the “heavens and the earth” are spoken of always as having something like equal relation to each other (“thus

the heavens and the earth were finished, and all the host of them"), I reject at once all idea of the term "Heavens" being intended to signify the infinity of space inhabited by countless worlds; for between those infinite heavens and the particle of sand, which not the earth only, but the sun itself, with all the solar system, is in relation to them, no relation of equality or comparison could be inferred. But I suppose the heavens to mean that part of creation which holds equal companionship with our globe; I understand the "rolling of those heavens together as a scroll" to be an equal and relative destruction with the "melting of the elements in fervent heat;"<sup>1</sup> and I understand the making the firmament to signify that, so far as man is concerned, most magnificent ordinance of the clouds;—the ordinance, that as the great plain of waters was formed on the face of the earth, so also a plain of waters should be stretched along the height of air, and the face of the cloud answer the face of the ocean; and that this upper and heavenly plain should be of waters, as it were, glorified in their nature, no longer quenching the fire, but now bearing fire in their own bosoms; no longer murmuring only when the winds raise them or rocks divide, but answering each other with their own voices from pole to pole; no longer restrained by established shores, and guided through unchanging channels, but going forth at their pleasure like the armies of the angels, and choosing their encampments upon the heights of the hills; no longer hurried downwards for ever, moving but to fall, nor lost in the lightless accumulation of the abyss,

<sup>1</sup> Compare also Job, xxxvi. 29., "The spreading of the clouds, and the noise of his tabernacle;" and xxxviii. 33., "Knowest thou the ordinances of heaven? canst thou set the dominion thereof in the earth? canst thou lift up thy voice to the clouds?"

Observe that in the passage of Addison's well known hymn —

"The spacious firmament on high,  
With all the blue, ethereal sky,  
And spangled heavens, a shining frame,  
Their great Original proclaim" —

the writer has clearly the true distinctions in his mind; he does not use his words, as we too often accept them, in vain tautology. By the *spacious* firmament he means the clouds, using the word *spacious* to mark the true meaning of the Hebrew term: the blue *ethereal* sky is the real air or ether, blue above the clouds; the heavens are the starry space, for which he uses this word, less accurately, indeed, than the others, but as the only one available for his meaning.

but covering the east and west with the waving of their wings, and robing the gloom of the farther infinite with a vesture of divers colours, of which the threads are purple and scarlet, and the embroideries flame.

- § 9. This, I believe, is the ordinance of the firmament; and it seems to me that in the midst of the material nearness of these heavens God means us to acknowledge His own immediate presence as visiting, judging, and blessing us. "The earth shook, the heavens also dropped, at the presence of God." "He doth set his bow in the cloud," and thus renews, in the sound of every drooping swathe of rain, his promises of everlasting love. "In them hath he set a *tabernacle* for the sun;" whose burning ball, which without the firmament would be seen but as an intolerable and scorching circle in the blackness of vacuity, is by that firmament surrounded with gorgeous service, and tempered by mediatorial ministries; by the firmament of clouds the golden pavement is spread for his chariot wheels at morning; by the firmament of clouds the temple is built for his presence to fill with light at noon; by the firmament of clouds the purple veil is closed at evening round the sanctuary of his rest; by the mists of the firmament his implacable light is divided, and its separated fierceness appeased into the soft blue that fills the depth of distance with its bloom, and the flush with which the mountains burn as they drink the overflowing of the dayspring. And in this tabernacling of the unendurable sun with men, through the shadows of the firmament, God would seem to set forth the stooping of His own majesty to men, upon the *throne* of the firmament. As the Creator of all the worlds, and the Inhabiter of eternity, we cannot behold Him; but, as the Judge of the earth and the Preserver of men, those heavens are indeed His dwelling-place. "Swear not, neither by heaven, for it is God's throne; nor by the earth, for it is his footstool." And all those passings to and fro of fruitful shower and grateful shade, and all those visions of silver palaces built about the horizon, and voices of moaning winds and threatening thunders, and glories of coloured robe and cloven ray, are but to deepen in our hearts the acceptance, and distinctness, and dearness of the simple words, "Our Father, which art in heaven."

## CHAPTER VII.

## THE DRY LAND.

- § 1. HAVING thus arrived at some apprehension of the true meaning and noble offices of the clouds, we leave farther inquiry into their aspects to another time, and follow the fixed arrangement of our subject; first, to the crests of the mountains. Of these also, having seen in our review of ancient and modern landscape various strange differences in the way men looked upon them, it will be well in the outset to ascertain, as far as may be, the true meaning and office.

The words which marked for us the purpose of the clouds are followed immediately by those notable ones:—

“And God said, Let the waters which are under the heaven be gathered together unto one place, and let the dry land appear.”

We do not, perhaps, often enough consider the deep significance of this sentence. We are too apt to receive it as the description of an event vaster only in its extent, not in its nature, than the compelling the Red Sea to draw back, that Israel might pass by. We imagine the Deity in like manner rolling the waves of the greater ocean together on an heap, and setting bars and doors to them eternally.

But there is a far deeper meaning than this in the solemn words of Genesis, and in the correspondent verse of the Psalm, “His hands prepared the dry land.” Up to that moment the earth had been *void*, for it had been *without form*. The command that the waters should be gathered was the command that the earth should be *sculptured*. The sea was not driven to his place in suddenly restrained rebellion, but withdrawn to his place in



perfect and patient obedience. The dry land appeared, not in level sands, forsaken by the surges, which those surges might again claim for their own ; but in range beyond range of swelling hill and iron rock, for ever to claim kindred with the firmament, and be companioned by the clouds of heaven.

§ 2. What space of time was in reality occupied by the "day" of Genesis, is not, at present, of any importance for us to consider. By what furnaces of fire the adamant was melted, and by what wheels of earthquake it was torn, and by what teeth of glacier and weight of sea-waves it was engraven and finished into its perfect form, we may perhaps hereafter endeavour to conjecture ; but here, as in few words the work is summed by the historian, so in few broad thoughts it should be comprehended by us ; and as we read the mighty sentence, "Let the dry land appear," we should try to follow the finger of God, as it engraved upon the stone tables of the earth the letters and the law of its everlasting form ; as, gulf by gulf, the channels of the deep were ploughed ; and, cape by cape, the lines were traced, with Divine foreknowledge, of the shores that were to limit the nations ; and, chain by chain, the mountain walls were lengthened forth, and their foundations fastened for ever ; and the compass was set upon the face of the depth, and the fields, and the highest part of the dust of the world were made ; and the right hand of Christ first strewed the snow on Lebanon, and smoothed the slopes of Calvary.

§ 3. It is not, I repeat, always needful, in many respects it is not possible, to conjecture the manner, or the time, in which this work was done ; but it is deeply necessary for all men to consider the magnificence of the accomplished purpose, and the depth of the wisdom and love which are manifested in the ordinances of the hills. For observe, in order to bring the world into the form which it now bears, it was not mere *sculpture* that was needed ; the mountains could not stand for a day unless they were formed of materials altogether different from those which constitute the lower hills, and the surfaces of the valleys. A harder substance had to be prepared for every mountain chain ; yet not so hard but that it might be capable of crumbling down

into earth fit to nourish the alpine forest and the alpine flower ; not so hard but that, in the midst of the utmost majesty of its enthroned strength, there should be seen on it the seal of death, and the writing of the same sentence that had gone forth against the human frame, "Dust thou art, and unto dust thou shalt return."<sup>1</sup> And with this perishable substance the most majestic forms were to be framed that were consistent with the safety of man ; and the peak was to be lifted, and the cliff rent, as high and as steeply as was possible, in order yet to permit the shepherd to feed his flocks upon the slope, and the cottage to nestle beneath their shadow.

- § 4. And observe, two distinct ends were to be accomplished in the doing this. It was, indeed, absolutely necessary that such eminences should be created, in order to fit the earth in any wise for human habitation ; for without mountains the air could not be purified, nor the flowing of the rivers sustained, and the earth must have become for the most part desert plain, or stagnant marsh. But the feeding of the rivers and the purifying of the winds are the least of the services appointed to the hills. To fill the thirst of the human heart for the beauty of God's working,—to startle its lethargy with the deep and pure agitation of astonishment,—are their higher missions. They are as a great and noble architecture ; first giving shelter, comfort, and rest ; and covered also with mighty sculpture and painted legend. It is impossible to examine in their connected system the features of even the most ordinary mountain scenery, without concluding that it has been prepared in order to unite as far as possible, and in the closest compass, every means of delighting and sanctifying the heart of man. "As far as *possible* ;" that is, as far as is consistent with the fulfilment of the sentence of condemnation on the whole earth. Death must be upon the hills ; and the cruelty of the tempests smite them, and the briar and thorn spring up upon them : but they so smite, as to bring their rocks into the fairest forms ; and so spring, as to make the very desert blossom

<sup>1</sup> "Surely the mountain falling cometh to nought, and the rock is removed out of his place. The waters wear the stones : thou wastest away the things which grow out of the dust of the earth ; and thou destroyest the hope of man." — *Job*, xiv. 18, 19.

as the rose. Even among our own hills of Scotland and Cumberland, though often too barren to be perfectly beautiful, and always too low to be perfectly sublime, it is strange how many deep sources of delight are gathered into the compass of their glens and vales; and how, down to the most secret cluster of their far-away flowers, and the idlest leap of their straying streamlets, the whole heart of Nature seems thirsting to give, and still to give, shedding forth her everlasting beneficence with a profusion so patient, so passionate, that our utmost observance and thankfulness are but, at last, neglect of her nobleness, and apathy to her love. But among the true mountains of the greater orders the Divine purpose of appeal at once to all the faculties of the human spirit becomes still more manifest. Inferior hills ordinarily interrupt, in some degree, the richness of the valleys at their feet; the grey downs of southern England, and treeless coteaux of central France, and grey swells of Scottish moor, whatever peculiar charm they may possess in themselves, are at least destitute of those which belong to the woods and fields of the lowlands. But the great mountains *lift* the lowlands *on their sides*. Let the reader imagine, first, the appearance of the most varied plain of some richly cultivated country; let him imagine it dark with graceful woods, and soft with deepest pastures; let him fill the space of it, to the utmost horizon, with innumerable and changeful incidents of scenery and life; leading pleasant streamlets through its meadows, strewing clusters of cottages beside their banks, tracing sweet footpaths through its avenues, and animating its fields with happy flocks, and slow wandering spots of cattle; and when he has wearied himself with endless imagining, and left no space without some loveliness of its own, let him conceive all this great plain, with its infinite treasures of natural beauty and happy human life, gathered up in God's hands from one edge of the horizon to the other, like a woven garment; and shaken into deep falling folds, as the robes droop from a king's shoulders; all its bright rivers leaping into cataracts along the hollows of its fall, and all its forests rearing themselves aslant against its slopes, as a rider rears himself back when his horse plunges; and all its villages nestling themselves into the new

windings of its glens; and all its pastures thrown into steep waves of greensward, dashed with dew along the edges of their folds, and sweeping down into endless slopes, with a cloud here and there lying quietly, half on the grass, half in the air; and he will have as yet, in all this lifted world, only the foundation of one of the great Alps. And whatever is lovely in the lowland scenery becomes lovelier in this change: the trees which grew heavily and stiffly from the level line of plain assume strange curves of strength and grace as they bend themselves against the mountain side; they breathe more freely, and toss their branches more carelessly as each climbs higher, looking to the clear light above the topmost leaves of its brother tree: the flowers which on the arable plain fell before the plough, now find out for themselves unapproachable places, where year by year they gather into happier fellowship, and fear no evil; and the streams which in the level land crept in dark eddies by unwholesome banks, now move in showers of silver, and are clothed with rainbows, and bring health and life wherever the glance of their waves can reach.

- § 5. And although this beauty seems at first, in its wildness, inconsistent with the service of man, it is, in fact, more necessary to his happy existence than all the level and easily subdued land which he rejoices to possess. It seems almost an insult to the reader's intelligence to ask him to dwell (as if they could be doubted) on the *uses* of the hills; and yet so little, until lately, have those uses been understood, that, in the seventeenth century, one of the most enlightened of the religious men of his day (Fleming), himself a native of a mountain country, casting about for some reason to explain to himself the existence of mountains, and prove their harmony with the general perfectness of the providential government of creation, can light upon this reason only, "They are inhabited by the beasts."

- § 6. It may not, therefore, even at this day, be altogether profitless or unnecessary to review briefly the nature of the three great offices which mountain ranges are appointed to fulfil, in order to preserve the health and increase the happiness of mankind. Their first use is of course to give motion to water. Every

First use of  
mountains.  
To give motion  
to water.

fountain and river, from the inch-deep streamlet that crosses the village lane in trembling clearness, to the massy and silent march of the everlasting multitude of waters in Amazon or Ganges, owe their play, and purity, and power, to the ordained elevations of the earth. Gentle or steep, extended or abrupt, some determined slope of the earth's surface is of course necessary, before any wave can so much as overtake one sedge in its pilgrimage; and how seldom do we enough consider, as we walk beside the margins of our pleasant brooks, how beautiful and wonderful is that ordinance, of which every blade of grass that waves in their clear water is a perpetual sign; that the dew and rain fallen on the face of the earth shall find no resting-place; shall find, on the contrary, fixed channels traced for them, from the ravines of the central crests down which they roar in sudden ranks of foam, to the dark hollows beneath the banks of lowland pasture, round which they must circle slowly among the stems and beneath the leaves of the lilies; paths prepared for them, by which, at some appointed rate of journey, they must evermore descend, sometimes slow and sometimes swift, but never pausing; the daily portion of the earth they have to glide over marked for them at each successive sunrise, the place which has known them knowing them no more, and the gateways of guarding mountains opened for them in cleft and chasm, none letting them in their pilgrimage; and, from far off, the great heart of the sea calling them to itself! Deep calleth unto deep. I know not which of the two is the more wonderful,—that calm, gradated, invisible slope of the champaign land, which gives motion to the stream; or that passage cloven for it through the ranks of hill, which, necessary for the health of the land immediately around them, would yet, unless so supernaturally divided, have fatally intercepted the flow of the waters from far-off countries. When did the great spirit of the river first knock at those adamantine gates? When did the porter open to it, and cast his keys away for ever, lapped in whirling sand? I am not satisfied—no one should be satisfied—with that vague answer,—the river cut its way. Not so. The river *found* its way. I do not see that rivers, in their own strength, can do

much in cutting their way; they are nearly as apt to choke their channels up, as to carve them out. Only give a river some little sudden power in a valley, and see how it will use it. Cut itself a bed? Not so, by any means, but fill up its bed, and look for another, in a wild, dissatisfied, inconsistent manner. Any way, rather than the old one, will better please it; and even if it is banked up and forced to keep to the old one, it will not deepen, but do all it can to raise it, and leap out of it. And although, wherever water has a steep fall, it will swiftly cut itself a bed deep into the rock or ground, it will not, when the rock is hard, cut a wider channel than it actually needs; so that if the existing river beds, through ranges of mountain, had in reality been cut by the streams, they would be found, wherever the rocks are hard, only in the form of narrow and profound ravines, — like the well-known channel of the Niagara, below the fall; not in that of extended valleys. And the actual work of true mountain rivers, though often much greater in proportion to their body of water than that of the Niagara, is quite insignificant when compared with the area and depth of the valleys through which they flow; so that, although in many cases it appears that those larger valleys have been excavated at earlier periods by more powerful streams, or by the existing stream in a more powerful condition, still the great fact remains always equally plain, and equally admirable, that, whatever the nature and duration of the agencies employed, the earth was so shaped at first as to direct the currents of its rivers in the manner most healthy and convenient for man. The valley of the Rhone may, though it is not likely, have been in great part excavated in early time by torrents a thousand times larger than the Rhone; but it could not have been excavated at all, unless the mountains had been thrown at first into two chains, between which the torrents were set to work in a given direction. And it is easy to conceive how, under any less beneficent dispositions of their masses of hill, the continents of the earth might either have been covered with enormous lakes, as parts of North America actually are covered; or have become wildernesses of pestiferous marsh; or lifeless plains, upon which the water

would have dried as it fell, leaving them for great part of the year desert. Such districts do exist, and exist in vastness: the *whole* earth is not prepared for the habitation of man; only certain small portions are prepared for him,—the houses, as it were, of the human race, from which they are to look abroad upon the rest of the world, not to wonder or complain that it is not all house, but to be grateful for the kindness of the admirable building, in the house itself, as compared with the rest. It would be as absurd to think it an evil that all the world is not fit for us to inhabit, as to think it an evil that the globe is no larger than it is. As much as we shall ever need is evidently assigned to us for our dwelling-place; the rest, covered with rolling waves or drifting sands, fretted with ice or crested with fire, is set before us for contemplation in an uninhabitable magnificence; and that part which we are enabled to inhabit owes its fitness for human life chiefly to its mountain ranges, which, throwing the superfluous rain off as it falls, collect it in streams or lakes, and guide it into given places, and in given directions; so that men can build their cities in the midst of fields which they know will be always fertile, and establish the lines of their commerce upon streams which will not fail.

- § 7. Nor is this giving of motion to water to be considered as confined only to the surface of the earth. A no less important function of the hills is in directing the flow of the fountains and springs, from subterranean reservoirs. There is no miraculous springing up of water out of the ground at our feet; but every fountain and well is supplied from a reservoir among the hills, so placed as to involve some slight fall or pressure, enough to secure the constant flowing of the stream. And the incalculable blessing of the power given to us in most valleys, of reaching by excavation some point whence the water will rise to the surface of the ground in perennial flow, is entirely owing to the concave disposition of the beds of clay or rock raised from beneath the bosom of the valley into ranks of enclosing hills.

§ 8. The second great use of mountains is to maintain a constant change in the currents and nature of the *air*. Such change would, of course, have been partly caused by differences in soils and vegetation, even if the earth had been level; but to a far less extent than it is now by the chains of hills, which, exposing on one side their masses of rock to the full heat of the sun (increased by the angle at which the rays strike on the slope), and on the other casting a soft shadow for leagues over the plains at their feet, divide the earth not only into districts, but into climates, and cause perpetual currents of air to traverse their passes, and ascend or descend their ravines, altering both the temperature and nature of the air as it passes, in a thousand different ways; moistening it with the spray of their waterfalls, sucking it down and beating it hither and thither in the pools of their torrents, closing it within clefts and caves, where the sunbeams never reach, till it is as cold as November mists, then sending it forth again to breathe softly across the slopes of velvet fields, or to be scorched among sunburnt shales and grassless crags; then drawing it back in moaning swirls through clefts of ice, and up into dewy wreaths above the snow-fields; then piercing it with strange electric darts and flashes of mountain fire, and tossing it high in fantastic storm-cloud, as the dried grass is tossed by the mower, only suffering it to depart at last, when chastened and pure, to refresh the faded air of the far-off plains.

§ 9. The third great use of mountains is to cause perpetual change in the *soils* of the earth. Without such provision the ground under cultivation would in a series of years become exhausted, and require to be upturned laboriously by the hand of man. But the elevations of the earth's surface provide for it a perpetual renovation. The higher mountains suffer their summits to be broken into fragments and to be cast down in sheets of massy rock, full, as we shall see presently, of every substance necessary for the nourishment of plants: these fallen fragments are again broken by frost, and ground by torrents, into various conditions of sand and clay—materials which are distributed perpetually by the streams farther and farther from the mountain's base. Every



shower which swells the rivulets enables their waters to carry certain portions of earth into new positions, and exposes new banks of ground to be mined in their turn. That turbid foaming of the angry water,—that tearing down of bank and rock along the flanks of its fury,—are no disturbances of the kind course of nature; they are beneficent operations of laws necessary to the existence of man and to the beauty of the earth. The process is continued more gently, but not less effectively, over all the surface of the lower undulating country; and each filtering thread of summer rain which trickles through the short turf of the uplands is bearing its own appointed burden of earth to be thrown down on some new natural garden in the dingles below.

And it is not, in reality, a degrading, but a true, large, and ennobling view of the mountain ranges of the world, if we compare them to heaps of fertile and fresh earth, laid up by a prudent gardener beside his garden beds, whence, at intervals, he casts on them some scattering of new and virgin ground. That which we so often lament as convulsion or destruction is nothing else than the momentary shaking of the dust from the spade. The winter floods, which inflict a temporary devastation, bear with them the elements of succeeding fertility; the fruitful field is covered with sand and shingle in momentary judgment, but in enduring mercy; and the great river, which chokes its mouth with marsh, and tosses terror along its shore, is but scattering the seeds of the harvests of futurity, and preparing the seats of unborn generations.

§ 10. I have not spoken of the local and peculiar utilities of mountains: I do not count the benefit of the supply of summer streams from the moors of the higher ranges,—of the various medicinal plants which are nested among their rocks,—of the delicate pasturage which they furnish for cattle,<sup>1</sup>—of the forests in which they bear timber for shipping,—the stones they supply for building, or the ores of metal which they collect into spots open to discovery, and easy for working. All

<sup>1</sup> The *highest* pasturages (at least so say the Savoyards) being always the best and richest.

these benefits are of a secondary or a limited nature. But the three great functions which I have just described, — those of giving motion and change to water, air, and earth, — are indispensable to human existence ; they are operations to be regarded with as full a depth of gratitude as the laws which bid the tree bear fruit, or the seed multiply itself in the earth. And thus those desolate and threatening ranges of dark mountain, which, in nearly all ages of the world, men have looked upon with aversion or with terror, and shrunk back from as if they were haunted by perpetual images of death, are, in reality, sources of life and happiness far fuller and more beneficent than all the bright fruitfulnesses of the plain. The valleys only feed ; the mountains feed, and guard, and strengthen us. We take our ideas of fearfulness and sublimity alternately from the mountains and the sea ; but we associate them unjustly. The sea wave, with all its beneficence, is yet devouring and terrible ; but the silent wave of the blue mountain is lifted towards heaven in a stillness of perpetual mercy ; and the one surge, unfathomable in its darkness, the other, unshaken in its faithfulness, for ever bear the seal of their appointed symbolism :

“ Thy *righteousness* is like the great mountains :  
Thy *judgments* are a great deep.”

## CHAPTER VIII.

OF THE MATERIALS OF MOUNTAINS:—FIRST, COMPACT  
CRYSTALLINES.

- § 1. IN the early days of geological science, the substances which composed the crust of the earth, as far as it could be examined, were supposed to be referable to three distinct classes: the first consisting of rocks which not only supported all the rest, but from which all the rest were derived, therefore called "Primary;" the second class consisting of rock formed of the broken fragments or altered substance of the primary ones, therefore called "Secondary;" and, thirdly, rocks or earthy deposits formed by the ruins and detritus of both primary and secondary rocks, called therefore "Tertiary." This classification was always, in some degree, uncertain; and has been lately superseded by more complicated systems, founded on the character of the fossils contained in the various deposits, and on the circumstances of position, by which their relative ages are more accurately ascertainable. But the original rude classification, though of little, if any, use for scientific purposes, was based on certain broad and conspicuous phenomena, which it brought clearly before the popular mind. In this way it may still be serviceable, and ought, I think, to be permitted to retain its place, as an introduction to systems more defined and authoritative.
- § 2. For the fact is, that in approaching any large mountain range, the ground over which the spectator passes, if he examine it with any intelligence, will almost always arrange itself in his mind under three great heads. There will be, first, the ground of the plains or valleys he is about to quit, composed of sand, clay, gravel,

rolled stones, and variously mingled soils; which, if he has any opportunity,—at the banks of a stream, or the sides of a railway cutting,—to examine to any depth, he will find arranged in beds exactly resembling those of modern sandbanks or sea-beaches, and appearing to have been formed under such natural laws as are in operation daily around us. At the outskirts of the hill district, he may, perhaps, find considerable eminences, formed of these beds of loose gravel and sand; but, as he enters into it farther, he will soon discover the hills to be composed of some harder substance, properly deserving the name of rock, sustaining itself in picturesque forms, and appearing, at first, to owe both its hardness and its outlines to the action of laws such as do not hold at the present day. He can easily explain the nature, and account for the distribution, of the banks which overhang the lowland road, or of the dark earthy deposits which enrich the lowland pasture; but he cannot so distinctly imagine how the limestone hills of Derbyshire and Yorkshire were hardened into their stubborn whiteness, or raised into their cavernous cliffs. Still, if he carefully examines the substance of these more noble rocks, he will, in nine cases out of ten, discover them to be composed of fine calcareous dust, or closely united particles of sand; and will be ready to accept as possible, or even probable, the suggestion of their having been formed, by slow deposit, at the bottom of deep lakes and ancient seas, under such laws of Nature as are still in operation.

- § a. But, as he advances yet farther into the hill district, he finds the rocks around him assuming a gloomier and more majestic condition. Their tint darkens; their outlines become wild and irregular; and whereas before they had only appeared at the roadside in narrow ledges among the turf, or glanced out from among the thickets above the brooks in white walls and fantastic towers, they now rear themselves up in solemn and shattered masses far and near; softened, indeed, with strange harmony of clouded colours, but possessing the whole scene with their iron spirit; and rising, in all probability, into eminences as much prouder in actual elevation than those of the intermediate rocks, as more powerful in their influence over every minor feature of the landscape.

§ 4. And when the traveller proceeds to observe closely the materials of which these nobler ranges are composed, he finds also a complete change in their internal structure. They are no longer formed of delicate sand or dust—each particle of that dust the same as every other, and the whole mass depending for its hardness merely on their closely cemented unity; but they are now formed of several distinct substances, visibly unlike each other; and not *pressed*, but *crystallized* into one mass, — crystallized into a unity far more perfect than that of the dusty limestone, but yet without the least mingling of their several natures with each other. Such a rock, freshly broken, has a spotty, granulated, and, in almost all instances, sparkling, appearance; it requires a much harder blow to break it than the limestone or sandstone; but, when once thoroughly shattered, it is easy to separate from each other the various substances of which it is composed, and to examine them in their individual grains or crystals; of which each variety will be found to have a different degree of hardness, a different shade of colour, and a different character of form.

But this examination will not enable the observer to comprehend the method either of their formation or aggregation, at least by any process such as he now sees taking place around him; he will at once be driven to admit that some strange and powerful operation has taken place upon these rocks, different from any of which he is at present cognizant; and farther inquiry will probably induce him to admit, as more than probable, the supposition that their structure is in great part owing to the action of enormous heat prolonged for indefinite periods.

§ 5. Now, although these three great groups of rocks do indeed often pass into each other by imperceptible gradations, and although their peculiar aspect is never a severe indication of their relative ages, yet their characters are for the most part so defined as to make a strong impression on the mind of an ordinary observer, and their age is also for the most part approximately indicated by their degrees of hardness, and crystalline aspect. It does, indeed, sometimes happen that a soft and slimy clay will pass into a rock like Aberdeen granite by transitions

so subtle that no point of separation can be determined; and it very often happens that rocks like Aberdeen granite are of more recent formation than certain beds of sandstone and limestone. But in spite of all these uncertainties and exceptions, I believe that unless actual pains be taken to efface from the mind its natural impressions, the idea of three great classes of rocks and earth will maintain its ground in the thoughts of the general observer; that whether he desire it or not, he will find himself throwing the soft and loose clays and sands together under one head; placing the hard rocks, of a dull, compact, homogeneous substance, under another head; and the hardest rocks, of a crystalline, glittering, and various substance, under a third head; and having done this, he will also find that, with certain easily admissible exceptions, these three classes of rocks are, in every district which he examines, of three different ages; that the softest are the youngest, the hard and homogeneous ones are older, and the crystalline are the oldest; and he will, perhaps, in the end, find it a somewhat inconvenient piece of respect to the complexity and accuracy of modern geological science, if he refuse to the three classes, thus defined in his imagination, their ancient titles of Tertiary, Secondary, and Primary.

- § 6. But however this may be, there is one lesson evidently intended to be taught by the different characters of these rocks, which we must not allow to escape us. We have to observe, first, the state of perfect powerlessness, and loss of all beauty, exhibited in those beds of earth in which the separated pieces or particles are entirely independent of each other, more especially in the gravel whose pebbles have all been *rolled into one shape*: secondly, the greater degree of permanence, power, and beauty possessed by the rocks whose component atoms have some affection and attraction for each other, though all of one kind; and, lastly, the utmost form and highest beauty of the rocks in which the several atoms have all *different shapes, characters, and offices*; but are inseparably united by some fiery process which has purified them all.

It can hardly be necessary to point out how these natural

ordinances seem intended to teach us the great truths which are the basis of all political science; how the polishing friction which separates, the affection that binds, and the affliction that fuses and confirms, are accurately symbolized by the processes to which the several ranks of hills appear to owe their present aspect; and how, even if the knowledge of those processes be denied to us, that present aspect may in itself seem no imperfect image of the various states of mankind: first, that which is powerless through total disorganization; secondly, that which, though united, and in some degree powerful, is yet incapable of great effort or result, owing to the too great similarity and confusion of offices, both in ranks and individuals; and finally, the perfect state of brotherhood and strength in which each character is clearly distinguished, separately perfected, and employed in its proper place and office.

§ 7. I shall not, however, so oppose myself to the views of our leading geologists as to retain here the names of Primary, Secondary, and Tertiary rocks. But as I wish the reader to keep the ideas of the three classes clearly in his mind, I will ask his leave to give them names which involve no theory, and can be liable, therefore, to no grave objections. We will call the hard, and (generally) central, masses Crystalline Rocks, because they almost always present an appearance of crystallization. The less hard substances, which appear compact and homogeneous, we will call Coherent Rocks, and for the scattered debris we will use the general term Diluvium.

§ 8. All these substances agree in one character, that of being more or less soft and destructible. One material, indeed, which enters largely into the composition of most of them, flint, is harder than iron; but even this, their chief source of strength, is easily broken by a sudden blow; and it is so combined in the large rocks with softer substances, that time and the violence of the weather invariably produce certain destructive effects on their masses. Some of them become soft, and moulder away; others break, little by little, into angular fragments or slaty sheets; but all yield in some way or other; and the problem to be solved in every mountain range appears to be, that under these

conditions of decay, the cliffs and peaks may be raised as high, and thrown into as noble forms, as is possible, consistently with an effective, though not perfect permanence, and a general, though not absolute security.

- § 9. Perfect permanence and absolute security were evidently in nowise intended.<sup>1</sup> It would have been as easy for the Creator to have made mountains of steel as of granite, of adamant as of lime; but this was clearly no part of the Divine counsels: mountains were to be destructible and frail; to melt under the soft lambency of the streamlet; to shiver before the subtle wedge of the frost; to wither with untraceable decay in their own substance; and yet, under all these conditions of destruction, to be maintained in magnificent eminence before the eyes of men.

Nor is it in anywise difficult for us to perceive the beneficent reasons for this appointed frailness of the mountains. They appear to be threefold: the first, and the most important, that successive soils might be supplied to the plains, in the manner explained in the last chapter, and that men might be furnished with a material for their works of architecture and sculpture, at once soft enough to be subdued, and hard enough to be preserved; the second, that some sense of danger might always be connected with the most precipitous forms, and thus increase their sublimity; and the third, that a subject of perpetual interest might be opened to the human mind in observing the changes of form brought about by time on these monuments of creation.

In order, therefore, to understand the method in which these various substances break, so as to produce the forms which are of chief importance in landscape, as well as the exquisite adaptation

<sup>1</sup> I am well aware that to the minds of many persons nothing bears a greater appearance of presumption than any attempt at reasoning respecting the purposes of the Divine Being; and that in many cases it would be thought more consistent with the modesty of humanity to limit its endeavour to the ascertaining of physical causes than to form conjectures respecting Divine intentions. But I believe this feeling to be false and dangerous. Wisdom can only be demonstrated in its ends, and goodness only perceived in its motives. He who in a morbid modesty supposes that he is incapable of apprehending any of the purposes of God, renders himself also incapable of witnessing His wisdom; and he who supposes that favours may be bestowed without intention, will soon learn to receive them without gratitude.



of all their qualities to the service of men, it will be well that I should take some note of them in their order; not with any mineralogical accuracy, but with care enough to enable me hereafter to explain, without obscurity, any phenomena dependent upon such peculiarities of substance.

- § 10. 1st. CRYSTALLINE ROCKS. — In saying, above, that the hardest rocks generally presented an appearance of “crystallization,” I meant a glittering or granulated look, somewhat like that of a coarse piece of freshly broken loaf sugar.

1. CRYSTALLINE ROCKS.

But this appearance may also exist in rocks of uniform and softer substance, such as statuary marble, of which freshly broken pieces, put into a sugar-basin, cannot be distinguished by the eye from the real sugar. Such rocks are truly crystalline in structure; but the group to which I wish to limit the term “crystalline,” is not only thus granulated and glittering, but is always composed of at least two, usually three or four, substances, intimately mingled with each other in the form of small grains or crystals, and giving the rock a more or less speckled or mottled look, according to the size of the crystals and their variety of colour. It is a law of nature, that whenever rocks are to be employed on hard service, and for great purposes, they shall be thus composed. And there appear to be two distinct providential reasons for this.

Are always Compound.

- § 11. The first, that these crystalline rocks being, as we saw above, generally the oldest and highest, it is from them that other soils of various kinds must be derived; and they were therefore made a kind of storehouse, from which, wherever they were found, all kinds of treasures could be developed necessary for the service of man and other living creatures. Thus the granite of Mont Blanc is a crystalline rock composed of four substances; and in these four substances are contained the elements of nearly all kinds of sandstone and clay, together with potash, magnesia, and the metals of iron and manganese. Wherever the smallest portion of this rock occurs, a certain quantity of each of these substances may be derived from it, and the plants and animals which require them sustained in health.

The second reason appears to be that rocks composed in this

manner are capable of more interesting variety in form than any others ; and as they were continually to be exposed to sight in the high ranges, they were so prepared as to be always as interesting and beautiful as possible.

§ 12.  
And divisible  
into two classes,  
Compact Crystallines  
and  
Slaty Crystallines.

These crystalline or spotted rocks we must again separate into two great classes, according to the arrangement, in them, of the particles of a substance called mica. It is not present in all of them ; but when it occurs, it is usually in large quantities, and a notable source of character. It varies in colour, occurring white, brown, green, red, and black ; and in aspect, from shining plates to small dark grains, even these grains being seen, under a magnifier, to be composed of little plates, like pieces of exceedingly thin glass ; but with this great difference from glass, that, whether large or small, the plates will not easily break *across*, but are elastic, and capable of being bent into a considerable curve ; only if pressed with a knife upon the edge, they will separate into any number of thinner plates, more and more elastic and flexible according to their thinness, and these again into others still finer ; there seeming to be no limit to the possible subdivision but the coarseness of the instrument employed.

§ 13. Now when these crystals, or grains, represented by the black spots and lines in Fig. 3., lie as they do at *a* in that figure, in all directions, cast hither and thither among the other materials of the stone,—sometimes on their faces, sometimes on their sides, sometimes on their edges,—they give the rock an irregularly granulated appearance and structure, so that it will break with equal ease in any direction ; but if these crystals lie all one way, with their sides parallel, as at *b*, they give the rock a striped or slaty look, and it will most readily break in the direc-

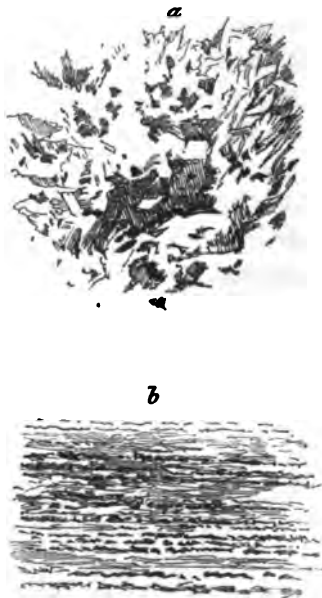


Fig. 3.

tion in which they lie, separating itself into folia or plates, more or less distinctly according to the quantity of mica in its mass. In the example Fig. 4., a piece of rock from the top of Mont Breven, there are very few of them, and the material with which they are surrounded is so hard and compact that the whole mass breaks irregularly, like a solid flint, beneath the hammer;



Fig. 4.

but the plates of mica nevertheless influence the fracture on a large scale, and occasion, as we shall see hereafter, the peculiar form of the precipice at the summit of the mountain.<sup>1</sup>

The rocks which are destitute of mica, or in which the mica lies irregularly, or in which it is altogether absent, I shall call Compact Crystallines. The rocks in which the mica lies regularly I shall call Slaty Crystallines.

- § 14. 1st. Compact Crystallines. — Under this head are embraced the large group of the granites, syenites, and porphyries, — rocks which all agree in the following particulars:—

COMPACT CRYSTALLINES.

<sup>1</sup> See Appendix 2. Slaty Cleavage.

Their first  
characteristic.  
*Speckledness.*

A. Variety of colour.—The method of their composition out of different substances necessitates their being all more or less spotted or dashed with various colours; there being generally a prevalent ground colour, with other subordinate hues broken over it, forming, for the most part, tones of silver grey, of warm but subdued red, or purple. Now, there is in this a very marvellous provision for the beauty of the central ranges. Other rocks, placed lower among the hills, receive colour upon their surfaces from all kinds of minute vegetation; but these higher and more exposed rocks are liable to be in many parts barren; and the wild forms into which they are thrown necessitate their being often freshly broken, so as to bring their pure colour, untempered in anywise, frankly into sight. Hence it is appointed that this colour shall not be raw or monotonous, but composed—as all beautiful colour must be composed—by mingling of many hues in one. Not that there is any aim at *attractive* beauty in these rocks; they are intended to constitute solemn and desolate scenes; and there is nothing delicately or variously disposed in their colours. Such beauty would have been inconsistent with their expression of power and terror, and it is reserved for the marbles and other rocks of inferior office. But their colour is grave and perfect; closely resembling, in many cases, the sort of hue reached by cross-chequering in the ground of fourteenth-century manuscripts, and peculiarly calculated for distant effects of light; being, for the most part, slightly warm in tone, so as to receive with full advantage the red and orange rays of sunlight. This warmth is almost always farther aided by a glowing orange colour, derived from the decomposition of the iron which, though in small quantity, usually is an essential element in them: the orange hue forms itself in unequal veins and spots upon the surfaces which have been long exposed, more or less darkening them; and a very minute black lichen,—so minute as to look almost like spots of dark paint,—a little opposed and warmed by the golden *Lichen geographicus*, still farther subdues the paler hues of the highest granite rocks. Now, when a surface of this kind is removed to a distance of four or five miles, and seen under warm light through soft air, the orange becomes russet, more or less

inclining to pure red, according to the power of the rays: but the black of the lichen becomes pure dark blue; and the result of their combination is that peculiar reddish purple which is so strikingly the characteristic of the rocks of the higher Alps. Most of the travellers who have seen the Valley of Chamouni carry away a strong impression that its upper precipices are of red rock. But they are, without exception, of a whitish grey, toned and raised by this united operation of the iron, the lichen, and the light.

§ 15. I have never had an opportunity of studying the effects of these tones upon rocks of porphyry; but the beautiful colour of that rock in its interior substance has rendered it one of the favourite materials of the architects of all ages, in their most costly work. Not that all porphyry is purple; there are green and white porphyries, as there are yellow and white roses; but the first idea of a porphyry rock is that it shall be purple,—just as the first idea of a rose is that it shall be red. The purple inclines always towards russet<sup>1</sup> rather than blue, and is subdued by small spots of grey or white. This speckled character, common to all the crystalline rocks, fits them, in art, for large and majestic work; it unfits them for delicate sculpture; and their second universal characteristic is altogether in harmony with this consequence of their first.

§ 16. This second characteristic is a tough hardness, not a brittle hardness, like that of glass or flint, which will splinter violently at a blow in the most unexpected directions; but a grave hard-

Their second  
characteristic.  
*Toughness.*

<sup>1</sup> As we had to complain of Dante for not enough noticing the colours of rocks in wild nature, let us do him the justice to refer to his noble symbolic use of their colours when seen in the hewn block.

“The lowest stair was marble white, so smooth  
And polished that therein my mirrored form  
Distinct I saw. The next of hue more dark  
Than sablest grain, a rough and singed block,  
Cracked lengthwise and across. The third, that lay  
Massy above, seemed porphyry, that flamed  
Red as the life-blood spouting from a vein.”

This stair is at the gate of Purgatory. The white step means sincerity of conscience; the black, contrition; the purple (I believe), pardon by the Atonement.

ness, which will bear many blows before it yields, and when it is forced to yield at last, will do so, as it were, in a serious and thoughtful way; not spitefully, nor uselessly, nor irregularly, but in the direction in which it is wanted, and where the force of the blow is directed—there, and there only. A flint which receives a shock stronger than it can bear, gives up everything at once, and flies into a quantity of pieces, each piece full of flaws. But a piece of granite seems to say to itself, very solemnly: “If these people are resolved to split me into two pieces, that is no reason why I should split myself into three. I will keep together as well as I can, and as long as I can; and if I must fall to dust at last, it shall be slowly and honourably; not in a fit of fury.” The importance of this character, in fitting the rock for human uses, cannot be exaggerated: it is essential to such uses that it should be hard, for otherwise it could not bear enormous weights without being crushed; and if, in addition to this hardness, it had been brittle, like glass, it could not have been employed except in the rudest way, as flints are in Kentish walls. But now it is possible to cut a block of granite out of its quarry to exactly the size we want; and that with perfect ease, without gunpowder, or any help but that of a few small iron wedges, a chisel, and a heavy hammer. A single workman can detach a mass fifteen or twenty feet long, by merely drilling a row of holes, a couple of inches deep, and three or four inches apart, along the surface, in the direction in which he wishes to split the rock, and then inserting wedges into each of these holes, and striking them, consecutively, with small, light, repeated blows along the whole row. The granite rends, at last, along the line, quite evenly, requiring very little chiselling afterwards to give the block a smooth face.

- § 17. This after-chiselling, however, is necessarily tedious work, and therefore that condition of speckled colour, which is beautiful if exhibited in broad masses, but offensive in delicate forms, exactly falls in with the conditions of *possible* sculpture. Not only is it more laborious to carve granite delicately, than a softer rock; but it is physically impossible to bring it into certain refinements of form. It cannot be scraped and touched into contours, as

marble can; it must be struck hard, or it will not yield at all; and to strike a delicate and detached form hard, is to break it. The detached fingers of a delicate hand, for instance, cannot, as far as I know, be cut in granite. The smallest portion could not be removed from them without a strength of blow which would break off the finger. Hence the sculptor of granite is forced to confine himself to, and to seek for, certain types of form capable of expression in his material; he is naturally driven to make his figures simple in surface, and colossal in size, that they may bear his blows; and this simplicity and magnitude are exactly the characters necessary to show the granitic or porphyritic colour to the best advantage. And thus we are guided, almost forced, by the laws of nature, to do right in art. Had granite been white, and marble speckled (and why should this not have been, but by the definite Divine appointment for the good of man?), the huge figures of the Egyptian would have been as oppressive to the sight as cliffs of snow, and the Venus de Medicis would have looked like some exquisitely graceful species of frog.

- § 18. The third universal characteristic of these rocks is their decomposition into the purest sand and clay. Some of them decompose spontaneously, though slowly, on exposure to weather; the greater number only after being mechanically pulverized; but the sand and clay to which by one or the other process they are reducible, are both remarkable for their purity. The clay is the finest and best that can be found for porcelain; the sand often of the purest white, always lustrous and bright in its particles. The result of this law is a peculiar aspect of purity in the landscape composed of such rocks. It cannot become muddy, or foul, or unwholesome. The streams which descend through it may indeed be opaque, and as white as cream with the churned substance of the granite; but their water, after this substance has been thrown down, is good and pure, and their shores are not slimy or treacherous, but of pebbles, or of firm and sparkling sand. The quiet streams, springs, and lakes are always of exquisite clearness, and the sea which washes a granite coast is as unsullied as a flawless emerald. It is remarkable to

*Their third  
characteristic.  
Purity in de-  
composition.*

what an extent this intense purity in the country seems to influence the character of its inhabitants. It is almost impossible to make a cottage built in a granite country look absolutely miserable. Rough it may be,—neglected, cold, full of aspect of hardship,—but it never can look *foul*; no matter how carelessly, how indolently, its inhabitants may live, the water at their doors will not stagnate, the soil beneath their feet will not allow itself to be trodden into slime, the timbers of their fences will not rot, they cannot so much as dirty their faces or hands if they try; do the worst they can, there will still be a feeling of firm ground under them, and pure air about them, and an inherent wholesomeness in their abodes which it will need the misery of years to conquer. And, as far as I remember, the inhabitants of granite countries have always a force and healthiness of character, more or less abated or modified, of course, according to the other circumstances of their life, but still definitely belonging to them, as distinguished from the inhabitants of the less pure districts of the hills.

These, then, are the principal characters of the compact crystallines, regarded in their minor or detached masses. Of the peculiar forms which they assume we shall have to speak presently; meantime, retaining these general ideas touching their nature and substance, let us proceed to examine, in the same point of view, the neighbouring group of slaty crystallines.



## CHAPTER IX.

## OF THE MATERIALS OF MOUNTAINS:—SECONDLY, SLATY CRYSTALLINES.

- § 1. It will be remembered that we said in the last chapter (§ 4.) that one of the notable characters of the whole group of the crystallines was the incomprehensibility of the processes which have brought them to their actual state. This however is more peculiarly true of the slaty crystallines. It is perfectly possible, by many processes of chemistry, to produce masses of irregular crystals which, though not of the substance of granite, are very like it in their mode of arrangement. But, as far as I am aware, it is impossible to produce artificially anything resembling the structure of the slaty crystallines. And the more I have examined the rocks themselves, the more I have felt at once the difficulty of explaining the method of their formation, and the growing interest of inquiries respecting that method. The facts (and I can venture to give nothing more than facts) are briefly these:—
- § 2. The mineral called mica, described in the course of the last chapter, is closely connected with another, differing from it in containing a considerable quantity of magnesia. This associated mineral, called chlorite, is of a dull greenish colour, and opaque, while the mica is, in thin plates, more or less translucent; and the chlorite is apt to occur more in the form of a green earth, or green dust, than of finely divided plates. The original quantity of magnesia in the rock determines how far the mica shall

give place to chlorite; and in the intermediate conditions of rock we find a black and nearly opaque mica, containing a good deal of magnesia, together with a chlorite, which at first seems mixed with small plates of true mica, or is itself formed of minute plates or spangles, and then, as the quantity of magnesia increases, assumes its proper form of a dark green earth.

- § 3. By this appointment there is obtained a series of materials by which the appearance of the rock may be varied to almost any extent. From plates of brilliant white mica half a foot broad, flashing in the sun like panes of glass, to a minute film of dark green dust, hardly traceable by the eye, an infinite range of conditions is found in the different groups of rocks; but always under this general law, that, for the most part, the compact crystallines present the purest and boldest plates of mica; and the tendency to pass into slaty crystallines is commonly accompanied by the change of the whiteness of the mica to a dark or black colour, indicating (I believe) the presence of magnesia, and by the gradual intermingling with it of chloritic earth; or else of a cognate mineral (differing from chlorite in containing a quantity of lime) called hornblende.

Such, at least, is eminently the case in the Alps; and in the account I have to give of their slaty crystallines, it must be understood that in using the word "mica" generally, I mean the more obscure conditions of the mineral, associated with chlorite and hornblende.

- § 4. Now it is quite easy to understand how, in the compact crystallines, the various elements of the rock, separating from each other as they congealed from their fluid state, whether of watery solution or fiery fusion, might arrange themselves in irregular grains as at *a* in Fig. 3. p. 109. Such an arrangement constantly takes place before our eyes in volcanic rocks as they cool. But it is not at all easy to understand how the white, hard, and comparatively heavy substances should throw themselves into knots and bands in one definite direction, and the delicate films of mica should undulate about and between them, as in Fig. 5., on next page, like rivers among islands, pursuing however, on the whole, a straight course across the mass of rock. If it could be

shown that such pieces of stone had been formed in the horizontal position in which I have drawn the one in the figure, the structure would be somewhat intelligible as the result of settlement. But, on the contrary, the lines of such foliated rocks hardly ever are



Fig. 5.

horizontal; neither can distinct evidence be found of their at any time having been so. The evidence, on the contrary, is often strongly in favour of their having been formed in the highly inclined directions in which they now occur, such as that of the piece in Fig. 7. p. 119.<sup>1</sup>

- § 5. Such, however, is the simple fact, that when the compact crystallines are about to pass into slaty crystallines, their mica throws itself into these bands and zones, undulating around knots of the other substances which compose the rock. Gradually the knots diminish in size, the mica becomes more abundant and more definite in direction, and at last the mass, when broken across the beds, assumes the appearance of Fig. 6. on next page.<sup>2</sup> Now it will be noticed that, in the lines of that figure, no less than in Fig. 5., though more delicately, there is a subdued, but

<sup>1</sup> See again Appendix 2. Slaty Cleavage.

<sup>2</sup> This is a piece of the gneiss of the Montanvert, near the Châlets of Blaitière dessous.

continual, expression of *undulation*. This character belongs, more or less, to nearly the whole mass of the slaty crystalline rocks; it is one of exquisite beauty, and of the highest importance to their picturesque forms. It is also one of as great mysteriousness as beauty. For these two figures are selected from crystallines whose beds are remarkably straight; in the greater

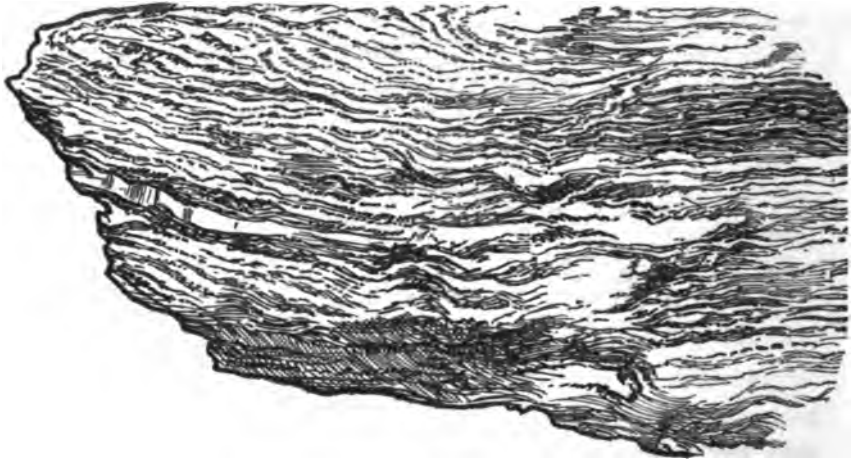


Fig. 6.

number the undulation becomes far more violent, and, in many, passes into absolute contortion. Fig. 7. is a piece of a slaty crystalline, rich in mica, from the valley of St. Nicolas, below Zermatt. The rock from which it was broken was thrown into coils three or four feet across: the fragment, which is drawn of the real size, was at one of the turns, and came away like a thick portion of a crumpled quire of paper from the other sheets.<sup>1</sup>

<sup>1</sup> "Some idea may be formed of the nature of these incurvations by supposing the gneiss beds to have been in a plastic state, either from the action of heat or of some other unknown cause, and, while in this state, to have been subjected to pressure at the two extremities, or in some other parts, according to the nature of the curvatures. But even this hypothesis (though the best that has been thought of) will scarcely enable us to explain all the contortions which not merely the beds of gneiss, but likewise of mica slate and clay slate, and even greywacke slate, exhibit. There is a bed of clay slate near the ferry to Kerrera, a few miles south of Oban, in Argyle-

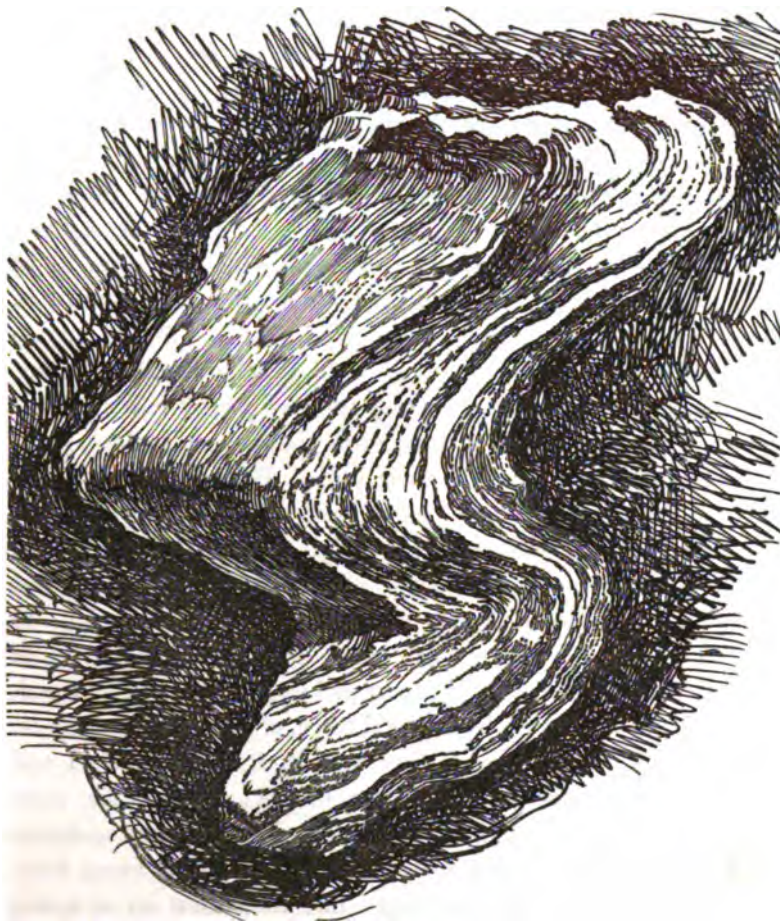


Fig. 7.

- § 6. I might devote half a volume to a description of the fantastic and incomprehensible arrangements of these rocks and their veins ;

Typical character of Slaty Crystallines.

shire. This bed has been partly wasted away by the sea, and its structure exposed to view. It contains a central cylindrical nucleus of unknown length (but certainly considerable), round which six beds of clay slate are wrapt, the one within the other, so as to form six concentric cylinders. Now, however plastic the clay slate may have been, there is no kind of pressure which will account for this structure ; the central cylinder would have required to have been rolled six times in succession (allowing an interval for solidification between each) in the plastic clay slate." — *Outlines of Mineralogy, Geology, &c.*, by Thomas Thomson, M.D.

but all that is necessary for the general reader to know or remember, is this broad fact of the *undulation* of their whole substance. For there is something, it seems to me, inexpressibly marvellous in this phenomenon, largely looked at. It is to be remembered that these are the rocks which, on the average, will be oftenest observed, and with the greatest interest, by the human race. The central granites are too far removed, the lower rocks too common, to be carefully studied; these slaty crystallines form the noblest hills that are easily accessible, and seem to be thus calculated especially to attract observation, and reward it. Well, we begin to examine them; and, first, we find a notable hardness in them, and a thorough boldness of general character, which make us regard them as very types of perfect rocks. They have nothing of the look of dried earth about them, nothing petty or limited in the display of their bulk. Where they are, they seem to form the world; no mere bank of a river here, or of a lane there, peeping out among the hedges or forests: but from the lowest valley to the highest clouds, all is theirs — one adamantine dominion and rigid authority of rock. We yield ourselves to the impression of their eternal, unconquerable stubbornness of strength; their mass seems the least yielding, least to be softened, or in anywise dealt with by external force, of all earthly substance. And, behold, as we look farther into it, it is all touched and troubled, like waves by a summer breeze; rippled, far more delicately than seas or lakes are rippled: *they* only undulate along their surfaces — this rock trembles through its every fibre, like the chords of an Eolian harp — like the stillest air of spring with the echoes of a child's voice. Into the heart of all those great mountains, through every tossing of their boundless crests, and deep beneath all their unfathomable defiles, flows that strange quivering of their substance. Other and weaker things seem to express their subjection to an Infinite power only by momentary terrors: as the weeds bow down before the feverish wind, and the sound of the going in the tops of the taller trees passes on before the clouds, and the fitful opening of pale spaces on the dark water, as if some invisible hand were casting dust abroad upon it, gives warning of the anger that is to come, we may well imagine

that there is indeed a fear passing upon the grass, and leaves, and waters, at the presence of some great spirit commissioned to let the tempest loose; but the terror passes, and their sweet rest is perpetually restored to the pastures and the waves. Not so to the mountains. They, which at first seem strengthened beyond the dread of any violence or change, are yet also ordained to bear upon them the symbol of a perpetual Fear: the tremor which fades from the soft lake and gliding river is sealed, to all eternity, upon the rock; and while things that pass visibly from birth to death may sometimes forget their feebleness, the mountains are made to possess a perpetual memorial of their infancy,—that infancy which the prophet saw in his vision: “I beheld the earth, and lo, it was without form and void, and the heavens, and they had no light. I beheld the mountains, and lo, they *trembled*; and all the hills *moved lightly*.”

§ 7. Thus far may we trace the apparent typical signification of the structure of those noble rocks. The material uses of this structure are not less important. These substances of the higher mountains, it is always to be remembered, were to be so hard as to enable them to be raised into, and remain in, the most magnificent forms; and this hardness renders it a matter of great difficulty for the peasant to break them into such masses as are required for his daily purposes. He is compelled in general to gather the fragments which are to form the walls of his house or his garden from the ruins into which the mountain suffers its ridges to be naturally broken; and if these pieces were absolutely irregular in shape, it would be a matter of much labour and skill to build securely with them. But the flattened arrangement of the layers of mica always causes the rock to break into flattish fragments, requiring hardly any pains in the placing them so as to lie securely in a wall, and furnishing light, broad, and unflawed pieces to serve for slates upon the roof; for fences, when set edgeways into the ground; or for pavements, when laid flat.

§ 8. Farther: whenever rocks break into utterly irregular fragments, the masses of debris which they form are not only excessively difficult to walk over, but the pieces touch each other in so few points, and suffer the water to run so easily

Serviceable characters of the Slaty Crystallines.

1. Fitness for building with.

2. Stability in debris.

and so far through their cavities, that it takes a long series of years to enable them either to settle themselves firmly, or receive the smallest covering of vegetation. Where the substance of the stone is soft, it may soon be worn down, so that the irregular form is of less consequence. But in the hard crystallines, unless they had a tendency to break into flattish fragments, their ruins would remain for centuries in impassable desolation. The flat shape of the separate pieces prevents this; it permits — almost necessitates — their fitting into and over each other in a tolerably close mass, and thus they become comparatively easy to the foot, less permeable to water, and therefore retentive both of surface moisture and of the seeds of vegetation.

§ 9. There is another result of nearly equal importance as far as regards the habitableness of the hills. When stones are thrown together in rounded or massy blocks, like a heap of hazel nuts, small force will sometimes disturb their balance; and when once set in motion, a square-built and heavy fragment will thunder down even a slightly sloping declivity, with an impetus as unlikely to be arrested as fatal in its increase. But when stones lie flatly, as dead leaves lie, it is not easy to tilt any one of them upon its edge, so as to set it in motion; and when once moved, it will nearly always slide, not roll, and be stopped by the first obstacle it encounters, catching against it by the edge, or striking into the turf where first it falls, like a hatchet. Were it not for the merciful ordinance that the slaty crystallines should break into thin and flattish fragments, the frequent falls of stones from the hill sides would render many spots among the greater mountain chains utterly uninhabitable, which are now comparatively secure.

§ 10. Of the picturesque aspects which this mode of cleavage produces in the mountains, and in the stones of the foreground, we shall have to speak presently; with regard to the uses of the material it is only necessary to note farther that these slaty rocks are of course, by their wilful way of breaking, rendered unfit for sculpture, and for nearly all purposes of art; the properties which render them convenient for the peasant in building his cottage,

3. Security on declivities.

4. Tendency to form the loveliest scenery.



making them unavailable for the architecture of more elaborate edifices. One very great advantage is thus secured for the scenery they compose, namely, that it is rarely broken by quarries. A single quarry will often spoil a whole Alpine landscape; the effect of the lovely bay of the Lago Maggiore, for instance, in which lie the Borromean Islands, is, in great part, destroyed by the scar caused by a quarry of pink granite on its western shore; and the valley of Chamouni itself has lost some of its loveliest rock scenery in consequence of the unfortunate discovery that the boulders which had fallen from its higher pinnacles, and were lying in massy heaps among its pines, were available for stone lintels and door-posts in the building of its new inns. But the slaty crystallines, though sometimes containing valuable mines, are hardly ever quarried for stone; and the scenes they compose retain, in general, little disturbed by man, their aspect of melancholy power, or simple and noble peace. The colour of their own mass, when freshly broken, is nearly the same as that of the compact crystallines; but it is far more varied by veins and zones of included minerals, and contains usually more iron, which gives a rich brown or golden colour to their exposed sides, so that the colouring of these rocks is the most glowing to be found in the mountain world. They form also soil for vegetation more quickly, and of a more fruitful kind than the granites, and appear, on the whole, intended to unite every character of grandeur and of beauty, and to constitute the loveliest as well as the noblest scenes which the earth ever unfolds to the eyes of men.

## CHAPTER X.

## OF THE MATERIALS OF MOUNTAINS:—THIRDLY, SLATY COHERENTS.

§ 1. It will be remembered that we resolved to give generally the term "coherent" to those rocks which appeared to be composed of one compact substance, not of several materials. But, as in all the arrangements of Nature we find that her several classes pass into each other by imperceptible gradations, and that there is no ruling of red lines between one and the other, we need not suppose that we shall find any plainly distinguishable limit between the crystalline and coherent rocks. Sometimes, indeed, a very distinctly marked crystalline will be joined by a coherent rock so sharply and neatly that it is possible to break off specimens, no larger than a walnut, containing portions of each; but far more frequently the transition from one to the other is effected gradually; or, if not, there exist, at any rate, in other places intervening, a series of rocks which possess an imperfectly crystalline character, passing down into that of simple coherence. This transition is usually effected through the different kinds of slate; the slaty crystallines becoming more and more fine in texture, until at last they appear composed of nothing but very fine mica or chlorite; and this mass of micaceous substance becomes more and more compact and silky in texture, losing its magnesia, and containing more of the earth which forms the substance of clay, until at last it assumes the familiar appearance of roofing-slate, the noblest example of the

coherent rocks. I call it the noblest, as being the nearest to the crystallines, and possessing much in common with them. Connected with this well-known substance are enormous masses of other rocks, more or less resembling it in character, of which the following are universal characteristics.

- § 2. First. They nearly always, as just said, contain more of the earth, which is the basis of clay, than the crystalline rocks; and they can be scratched or crushed with much greater facility. The point of a knife will trace a continuous powdery streak upon most of the coherent rocks; while it will be quite powerless against a large portion of the granular knots in the crystallines. Besides this actual softness of substance, the slaty coherents are capable of very fine division into flakes, not irregularly and contortedly, like the crystallines, but straightly, so as to leave a silky lustre on the sides of the fragments, as in roofing slate; and separating with great ease, yielding to a slight pressure against the edge. Consequently, although the slaty coherents are capable of forming large and bold mountains, they are liable to all kinds of destruction and decay in a far greater degree than the crystallines; giving way in large masses under frost, and crumbling into heaps of flaky rubbish, which in its turn dissolves or is ground down into impalpable dust or mud, and carried to great distances by the mountain streams. These characters render the slaty coherents peculiarly adapted for the support of vegetation; and as, though apparently homogeneous, they usually contain as many chemical elements as the crystallines, they constitute (as far as regards the immediate nourishment of soils) the most important part of mountain ranges.

Characteristics  
of slaty co-  
herents.

1. Softness of  
texture.

2. Lamination  
of structure.

- § 3. I have already often had occasion to allude to the apparent connection of brilliancy of colour with vigour of life, or purity of substance. This is preeminently the case in the mineral kingdom. The perfection with which the particles of any substance unite in crystallization corresponds, in that kingdom, to the vital power in organic nature; and it is a universal law, that according to the purity of any substance, and according to the energy of its crystallization, is its beauty or brightness.

3. Darkness and  
blueness in  
colour.

Pure earths are without exception white when in powder; and the same earths which are the constituents of clay and sand, form, when crystallized, the emerald, ruby, sapphire, amethyst, and opal. Darkness and dulness of colour are the universal signs of dissolution, or disorderly mingling of elements.<sup>1</sup>

- § 4. Accordingly, these slaty coherents, being usually composed of many elements imperfectly united, are also for the most part grey, black, or dull purple; those which are purest and hardest verging most upon purple, and some of them in certain lights displaying, on their smooth sides, very beautiful zones and changeful spaces of grey, russet, and obscure blue. But even this beauty is strictly connected with their preservation of such firmness of form as properly belongs to them; it is seen chiefly on their even and silky surfaces; less, in comparison, upon their broken edges, and is lost altogether when they are reduced to powder. They then form a dull grey dust, or, with moisture, a black slime, of great value as a vegetative earth, but of intense ugliness when it occurs in extended spaces in mountain scenery. And thus the slaty coherents are often employed to form those landscapes of which the purpose appears to be to impress us with a sense of horror and pain, as a foil to neighbouring scenes of extreme beauty. There are many spots among the inferior ridges of the Alps, such as the Col de Ferret, the Col d'Anterne, and the associated ranges of the Buet, which, though commanding prospects of great nobleness, are themselves very nearly types of all that is most painful to the human mind. Vast wastes of mountain ground, covered here and there with dull grey grass, or moss, but breaking continually into black banks of shattered slate, all glistening and sodden with slow tricklings of clogged, incapable streams; the snow water oozing through them in a cold sweat, and spreading itself in creeping stains among their dust; ever and anon a shaking here and there, and a handful or two of their particles or flakes trembling down, one sees not why, into more total dissolution, leaving a few jagged teeth, like the edges of knives eaten away

<sup>1</sup> Compare the close of § 11. Chap. III. Vol. III., and, here, Chap. III. § 23.

by vinegar, projecting through the half-dislodged mass from the inner rock, keen enough to cut the hand or foot that rests on them, yet crumbling as they wound, and soon sinking again into the smooth, slippery, glutinous heap, looking like a beach of black scales of dead fish, cast ashore from a poisonous sea, and sloping away into foul ravines, branched down immeasurable slopes of barrenness, where the winds howl and wander continually, and the snow lies in wasted and sorrowful fields, covered with sooty dust, that collects in streaks and stains at the bottom of all its thawing ripples. I know no other scenes so appalling as these in storm, or so woful in sunshine.

§ 5. Where, however, these same rocks exist in more favourable positions, that is to say, in gentler banks and at lower elevations, they form a ground for the most luxuriant vegetation; and the valleys of Savoy owe to them some of their loveliest solitudes, — exquisitely rich pastures, interspersed with arable and orchard land, and shaded by groves of walnut and cherry. Scenes of this kind, and of that just described, so singularly opposed, and apparently brought together as foils to each other, are, however, peculiar to certain beds of the slaty coherents, which are both vast in elevation, and easy of destruction. In Wales and Scotland, the same groups of rocks possess far greater hardness, while they attain less elevation; and the result is a totally different aspect of scenery. The severity of the climate, and the comparative durableness of the rock, forbid the rich vegetation; but the exposed summits, though barren, are not subject to laws of destruction so rapid and fearful as in Switzerland; and the natural colour of the rock is oftener developed in the purples and greys which, mingled with the heather, form the principal elements of the deep and beautiful distant blue of the British hills. Their gentler mountain streams also permit the beds of rock to remain in firm, though fantastic, forms along their banks, and the gradual action of the cascades and eddies upon the slaty cleavage produces many pieces of foreground scenery to which higher hills can present no parallel. Of these peculiar conditions we shall have to speak at length in another place.

4. Great power  
of supporting  
vegetation.

- § 6. As far as regards ministry to the purposes of man, the slaty coherenters are of somewhat more value than the slaty crystallines. Most of them can be used in the same way for rough buildings, while they furnish finer plates or sheets for roofing. It would be difficult, perhaps, to estimate the exact importance of their educational influence in the form of drawing-slate. For sculpture they are, of course, altogether unfit, but I believe certain finer conditions of them are employed for a dark ground in Florentine mosaic.
5. Adaptation to architecture and the fine arts.
- § 7. It remains only to be noticed, that the direction of the lamination (or separation into small folia) is, in these rocks, not always, nor even often, indicative of the true direction of their larger beds. It is not, however, necessary for the reader to enter into questions of such complicated nature as those which belong to the study of slaty cleavage; and only a few points, which I could not pass over, are noted in the Appendix; but it is necessary to observe here, that all rocks, however constituted, or however disposed, have certain ways of breaking in one direction rather than another, and separating themselves into blocks by means of smooth cracks or fissures, technically called joints, which often influence their forms more than either the position of their beds, or their slaty lamination; and always are conspicuous in their weathered masses. Of these, however, as it would be wearisome to enter into more detail at present, I rather choose to speak incidentally, as we meet with examples of their results in the scenery we have to study more particularly.

## CHAPTER XI.

## OF THE MATERIALS OF MOUNTAINS:—FOURTHLY, COMPACT COHERENTS.

- § 1. THIS group of rocks, the last we have to examine, is, as far as respects geographical extent and usefulness to the human race, more important than any of the preceding ones. It forms the greater part of all low hills and uplands throughout the world, and supplies the most valuable materials for building and sculpture, being distinguished from the group of the slaty coherents by its incapability of being separated into thin sheets. All the rocks belonging to the group break irregularly, like loaf sugar or dried clay. Some of them are composed of hardened calcareous matter, and are known as limestone; others are merely hardened sand, and are called freestone or sandstone; and others, appearing to consist of dried mud or clay, are of less general importance, and receive different names in different localities.
- § 2. Among these rocks, the foremost position is, of course, occupied by the great group of the marbles, of which the substance appears to have been prepared expressly in order to afford to human art a perfect means of carrying out its purposes. They are of exactly the necessary hardness,—neither so soft as to be incapable of maintaining themselves in delicate forms, nor so hard as always to require a blow to give effect to the sculptor's touch; the mere pressure of his chisel produces a certain effect upon them. The colour of the white varieties is of exquisite delicacy, owing to the partial translucency of the pure rock; and it has always appeared to me a most wonderful ordinance,—one of the most *marked* pieces of purpose in the creation,—that all the variegated kinds should be

comparatively opaque, so as to set off the colour on the surface, while the white, which if it had been opaque would have looked somewhat coarse (as, for instance, common chalk does), is rendered just translucent enough to give an impression of extreme purity, but not so translucent as to interfere in the least with the distinctness of any forms into which it is wrought. The colours of variegated marbles are also for the most part very beautiful, especially those composed of purple, amber, and green, with white; and there seems to be something notably attractive to the human mind in the vague and veined labyrinths of their arrangements. They are farther marked as the prepared material for human work by the dependence of their beauty on smoothness of surface; for their veins are usually seen but dimly in the native rock; and the colours they assume under the action of weather are inferior to those of the crystallines: it is not until wrought and polished by man that they show their character. Finally, they do not decompose. The exterior surface is sometimes destroyed by a sort of mechanical disruption of its outer flakes, but rarely to the extent in which such action takes place in other rocks; and the most delicate sculptures, if executed in good marble, will remain for ages undeteriorated.

- § 3. Quarries of marble are, however, rare, and we owe the greatest part of the good architecture of this world to the more ordinary limestones and sandstones, easily obtainable in blocks of considerable size, and capable of being broken, sawn, or sculptured with ease; the colour, generally grey, or warm red (the yellow and white varieties becoming grey with age), being exactly that which will distinguish buildings by an agreeable contrast from the vegetation by which they may be surrounded.

To these inferior conditions of the compact coherents we owe also the greater part of the *pretty* scenery of the inhabited globe. The sweet winding valleys, with peeping cliffs on either side; the light, irregular wanderings of broken streamlets; the knolls and slopes covered with rounded woods; the narrow ravines, carpeted with greensward, and haunted by traditions of fairy or gnome; the jutting crags, crowned by the castle or watch-tower; the white sea-cliff and sheep-fed down; the long succession of coteau,



sunburnt, and bristling with vines,—all these owe whatever they have of simple beauty to the peculiar nature of the group of rocks of which we are speaking; a group which, though occasionally found in mountain masses of magnificent form and size, is on the whole characterized by a comparative smallness of scale, and a tendency to display itself less in true mountains than in elevated downs or plains, through which winding valleys, more or less deep, are cut by the action of the streams.

§ 4. It has been said that this group of rocks is distinguished by its incapability of being separated into sheets. This is only true of it in small portions, for it is usually deposited in beds or layers of irregular thickness, which are easily separable from each other; and when, as not unfrequently happens, some of these beds are only half an inch or a quarter of an inch thick, the rock appears to break into flat plates like a slaty coherent. But this appearance is deceptive. However thin the bed may be, it will be found that it is in its own substance compact, and not separable into two other beds; but the true slaty coherents possess a delicate slatiness of structure, carried into their most minute portions, so that however thin a piece of them may be, it is usually possible, if we have instruments fine enough, to separate it into two still thinner flakes. As, however, the slaty and compact crystallines, so also the slaty and compact coherents pass into each other by subtle gradations, and present many intermediate conditions, very obscure and indefinable.

§ 5. I said just now that the colours of the compact coherents were usually such as would pleasantly distinguish buildings from vegetation. They are so; but, considered as abstract hues, are yet far less agreeable than those of the nobler and older rocks. And it is to be noticed, that as these inferior rocks are the materials with which we usually build, they form the ground of the idea suggested to most men's minds by the word "stone," and therefore the general term "stone-colour" is used in common parlance as expressive of the hue to which the compact coherents for the most part approximate. By stone-colour I suppose we all understand a sort of tawny grey, with too much yellow in it to be called cold, and too little to be called warm. And it is

quite true that over enormous districts of Europe, composed of what are technically known as "Jura" and "mountain" limestones, and various pale sandstones, such is generally the colour of any freshly broken rock which peeps out along the sides of their gentler hills. It becomes a little greyer as it is coloured by time, but never reaches anything like the noble hues of the gneiss and slate; the very lichens which grow upon it are poorer and paler; and although the deep wood mosses will sometimes bury it altogether in golden cushions, the minor mosses, whose office is to decorate and chequer the rocks without concealing them, are always more meagrely set on these limestones than on the crystallines.

- § 6. I never have had time to examine and throw into classes the varieties of the mosses which grow on the two kinds of rock, nor have I been able to ascertain whether there are really numerous differences between the species, or whether they only grow more luxuriantly on the crystallines than on the coherents. But this is certain, that on the broken rocks of the foreground in the crystalline groups the mosses seem to set themselves consentfully and deliberately to the task of producing the most exquisite harmonies of colour in their power. They will not conceal the form of the rock, but will gather over it in little brown bosses, like small cushions of velvet made of mixed threads of dark ruby silk and gold, rounded over more subdued films of white and grey, with lightly crisped and curled edges like hoar frost on fallen leaves, and minute clusters of upright orange stalks with pointed caps, and fibres of deep green, and gold, and faint purple passing into black, all woven together, and following with unimaginable fineness of gentle growth the undulation of the stone they cherish, until it is charged with colour so that it can receive no more; and instead of looking rugged, or cold, or stern, as anything that a rock is held to be at heart, it seems to be clothed with a soft, dark leopard skin, embroidered with arabesque of purple and silver. But in the lower ranges this is not so. The mosses grow in more independent spots, not in such a clinging and tender way over the whole surface; the lichens are far poorer and fewer; and the colour of the

stone itself is seen more frequently; altered, if at all, only into a little chiller grey than when it is freshly broken. So that a limestone landscape is apt to be dull and cold in general tone, with some aspect even of barrenness. The sandstones are much richer in vegetation: there are, perhaps, no scenes in our own island more interesting than the wooded dingles which traverse them, the red rocks glowing out on either side, and shelving down into the pools of their deep brown rivers, as at Jedburgh and Langholme; the steep oak copses climbing the banks, the paler plumes of birch shaking themselves free into the light of the sky above, and the few arches of the monastery where the fields in the glen are greenest, or the stones of the border tower where its cliffs are steepest, rendering both field and cliff a thousandfold more dear to the heart and sight. But deprived of such associations, and compared in their mere natural beauty with the ravines of the central ranges, there can be no question but that even the loveliest passages of such scenery are imperfect and poor in foreground colour. And at first there would seem to be an unfairness in this, unlike the usual system of compensation which so often manifests itself throughout nature. The higher mountains have their scenes of power and vastness, their blue precipices and cloud-like snows: why should they also have the best and fairest colours given to their foreground rocks, and overburden the human mind with wonder; while the less majestic scenery, tempting us to the observance of details for which amidst the higher mountains we had no admiration left, is yet, in the beauty of those very details, as inferior as it is in scale of magnitude?

- § 7. I believe the answer must be, simply, that it is not good for man to live among what is most beautiful;—that he is a creature incapable of satisfaction by anything upon earth; and that to allow him habitually to possess, in any kind whatsoever, the utmost that earth can give, is the surest way to cast him into lassitude or discontent.

If the most exquisite orchestral music could be continued without a pause for a series of years, and children were brought

up and educated in the room in which it was perpetually resounding, I believe their enjoyment of music, or understanding of it, would be very small. And an accurately parallel effect seems to be produced upon the powers of contemplation, by the redundant and ceaseless loveliness of the high mountain districts. The faculties are paralyzed by the abundance, and cease, as we before noticed of the imagination, to be capable of excitement, except by other subjects of interest than those which present themselves to the eye. So that it is, in reality, better for mankind that the forms of their common landscape should offer no violent stimulus to the emotions,—that the gentle upland, browned by the bending furrows of the plough, and the fresh sweep of the chalk down, and the narrow winding of the copse-clad dingle, should be more frequent scenes of human life than the Arcadias of cloud-capped mountain or luxuriant vale; and that, while humbler (though always infinite) sources of interest are given to each of us around the homes to which we are restrained for the greater part of our lives, these mightier and stranger glories should become the objects of adventure,—at once the cynosures of the fancies of childhood, and themes of the happy memory, and the winter's tale of age.

§ 8. Nor is it always that the inferiority is felt. For, so natural is it to the human heart to fix itself in hope rather than in present possession, and so subtle is the charm which the imagination casts over what is distant or denied, that there is often a more touching power in the scenes which contain far-away promise of something greater than themselves, than in those which exhaust the treasures and powers of Nature in an unconquerable and excellent glory, leaving nothing more to be by the fancy pictured, or pursued.

I do not know that there is a district in the world more calculated to illustrate this power of the expectant imagination, than that which surrounds the city of Fribourg in Switzerland, extending from it towards Berne. It is of grey sandstone, considerably elevated, but presenting no object of striking interest to the passing traveller; so that, as it is generally seen in the course of a hasty journey from the Bernese Alps to those of Savoy, it is

rarely regarded with any other sensation than that of weariness, all the more painful because accompanied with reaction from the high excitement caused by the splendour of the Bernese Oberland. The traveller, footsore, feverish, and satiated with glacier and precipice, lies back in the corner of the diligence, perceiving little more than that the road is winding and hilly, and the country through which it passes cultivated, and tame. Let him, however, only do this tame country the justice of staying in it a few days, until his mind has recovered its tone, and take one or two long walks through its fields, and he will have other thoughts of it. It is, as I said, an undulating district of grey sandstone, never attaining any considerable height, but having enough of the mountain spirit to throw itself into continual succession of bold slope and dale; elevated, also, just far enough above the sea to render the pine a frequent forest tree along its irregular ridges. Through this elevated tract the river cuts its way in a ravine some five or six hundred feet in depth, which winds for leagues between the gentle hills, unthought of, until its edge is approached; and then suddenly, through the boughs of the firs, the eye perceives, beneath, the green and gliding stream, and the broad walls of sandstone cliff that form its banks; hollowed out where the river leans against them, at its turns, into perilous overhanging, and, on the other shore, at the same spots, leaving little breadths of meadow between them and the water, half-overgrown with thicket, deserted in their sweetness, inaccessible from above, and rarely visited by any curious wanderers along the hardly traceable footpath which struggles for existence beneath the rocks. And there the river ripples, and eddies, and murmurs in an utter solitude. It is passing through the midst of a thickly peopled country; but never was a stream so lonely. The feeblest and most far-away torrent among the high hills has its companions: the goats browse beside it; and the traveller drinks from it, and passes over it with his staff; and the peasant traces a new channel for it down to his mill-wheel. But this stream has no companions: it flows on in an infinite seclusion, not secret nor threatening, but a quietness of sweet daylight and open air, — a broad space of tender and deep desolateness, drooped into

repose out of the midst of human labour and life; the waves plashing lowly, with none to hear them; and the wild birds building in the boughs, with none to fray them away; and the soft, fragrant herbs rising, and breathing, and fading, with no hand to gather them;—and yet all bright and bare to the clouds above, and to the fresh fall of the passing sunshine and pure rain.

- § 9. But above the brows of those scarped cliffs, all is in an instant changed. A few steps only beyond the firs that stretch their branches, angular, and wild, and white, like forks of lightning, into the air of the ravine, and we are in an arable country of the most perfect richness; the swathes of its corn glowing and burning from field to field; its pretty hamlets all vivid with fruitful orchards and flowery gardens, and goodly with steep-roofed storehouse and barn; its well-kept, hard, park-like roads rising and falling from hillside to hillside, or disappearing among brown banks of moss, and thickets of the wild raspberry and rose; or gleaming through lines of tall trees, half glade, half avenue, where the gate opens, or the gateless path turns trustedly aside, unhindered, into the garden of some statelier house, surrounded in rural pride with its golden hives, and carved granaries, and irregular domain of latticed and espaliered cottages, gladdening to look upon in their delicate homeliness—delicate, yet, in some sort, rude; not like our English homes—trim, laborious, formal, irreproachable in comfort; but with a peculiar carelessness and largeness in all their detail, harmonizing with the outlawed loveliness of their country. For there is an untamed strength even in all that soft and habitable land. It is, indeed, gilded with corn and fragrant with deep grass, but it is not subdued to the plough or to the scythe. It gives at its own free will,—it seems to have nothing wrested from it nor conquered in it. It is not redeemed from desertness, but unrestrained in fruitfulness,—a generous land, bright with capricious plenty, and laughing from vale to vale in fitful fulness, kind and wild; nor this without some sterner element mingled in the heart of it. For along all its ridges stand the dark masses of innumerable pines, taking no part in its gladness, asserting themselves for ever as fixed shadows, not to be pierced or banished, even in the intensest sunlight; fallen flakes.

and fragments of the night, stayed in their solemn squares in the midst of all the rosy bendings of the orchard boughs, and yellow effulgence of the harvest, and tracing themselves in black network and motionless fringes against the blanched blue of the horizon in its saintly clearness. And yet they do not sadden the landscape, but seem to have been set there chiefly to show how bright everything else is round them; and all the clouds look of purer silver, and all the air seems filled with a whiter and more living sunshine, where they are pierced by the sable points of the pines; and all the pastures look of more glowing green, where they run up between the purple trunks; and the sweet field footpaths skirt the edges of the forest for the sake of its shade, sloping up and down about the slippery roots, and losing themselves every now and then hopelessly among the violets, and ground ivy, and brown sheddings of the fibrous leaves; and, at last, plunging into some open aisle where the light, through the distant stems, shows that there is a chance of coming out again on the other side; and coming out, indeed, in a little while, from the scented darkness, into the dazzling air and marvellous landscape, that stretches still farther and farther in new wilfulnesses of grove and garden, until, at last, the craggy mountains of the Simmenthal rise out of it, sharp into the rolling of the southern clouds.

- § 10. I believe, for general development of human intelligence and sensibility, country of this kind is about the most perfect that exists. A richer landscape, as that of Italy, enervates, or causes wantonness; a poorer contracts the conceptions, and hardens the temperament of both mind and body; and one more curiously or prominently beautiful deadens the sense of beauty. Even what is here of attractiveness,—far exceeding, as it does, that of most of the thickly peopled districts of the temperate zone,—seems to act harmfully on the poetical character of the Swiss; but take its inhabitants all in all, as with deep love and stern penetration they are painted in the works of their principal writer, Gotthelf, and I believe we shall not easily find a peasantry which would completely sustain comparison with them.
- § 11. But be this as it may, it is certain that the compact coherent rocks are appointed to form the greatest part of the earth's sur-

face, and by their utility, and easily changed and governed qualities, to tempt man to dwell among them; being, however, in countries not definitely mountainous, usually covered to a certain depth by those beds of loose gravel and sand to which we agreed to give the name of diluvium. There is nothing which will require to be noted respecting these last, except the forms into which they are brought by the action of water; and the account of these belongs properly to the branch of inquiry which follows next in the order we proposed to ourselves, namely, that touching the sculpture of mountains, to which it will be best to devote some separate chapters; this only being noted in conclusion respecting the various rocks whose nature we have been describing, that out of the entire series of them we may obtain almost every colour pleasant to human sight, not the less so for being generally a little softened or saddened. Thus we have beautiful subdued reds, reaching tones of deep purple, in the porphyries, and of pale rose colour, in the granites; every kind of silvery and leaden grey, passing into purple, in the slates; deep green, and every hue of greenish grey, in the volcanic rocks, and serpentines; rich orange, and golden brown, in the gneiss; black, in the lias limestones; and all these, together with pure white, in the marbles. One colour only we hardly ever get in an exposed rock—that dull *brown* which we noticed above, in speaking of colour generally, as the most repulsive of all hues; every approximation to it is softened by nature, when exposed to the atmosphere, into a purply grey. All this can hardly be otherwise interpreted, than as prepared for the delight and recreation of man; and I trust that the time may soon come when these beneficent and beautiful gifts of colour may be rightly felt and wisely employed, and when the variegated fronts of our houses may render the term “stone-colour” as little definite in the mind of the architect as that of “flower-colour” would be to the horticulturist.



## CHAPTER XII.

## OF THE SCULPTURE OF MOUNTAINS:—FIRST, THE LATERAL RANGES.

§ 1. CLOSE beside the path by which travellers ascend the Montanvert from the valley of Chamouni, on the right hand, where it first begins to rise among the pines, there descends a small stream from the foot of the granite peak known to the guides as the Aiguille Chamois. It is concealed from the traveller by a thicket of alder, and its murmur is hardly heard, for it is one of the weakest streams of the valley. But it is a constant stream; fed by a permanent though small glacier, and continuing to flow even to the close of the summer, when more copious torrents, depending only on the melting of the lower snows, have left their beds "stony channels in the sun."

I suppose that my readers must be generally aware that glaciers are masses of ice in slow motion, at the rate of from ten to twenty inches a day, and that the stones which are caught between them and the rocks over which they pass, or which are embedded in the ice and dragged along by it over those rocks, are of course subjected to a crushing and grinding power altogether unparalleled by any other force in constant action. The dust to which these stones are reduced by the friction is carried down by the streams which flow from the melting glacier, so that the water which in the morning may be pure, owing what little strength it has chiefly to the rock springs, is in the afternoon not only increased in volume, but whitened with dissolved dust of granite, in proportion to the heat of the preceding hours

of the day, and to the power and size of the glacier which feeds it.

- § 2. The long drought which took place in the autumn of the year 1854, sealing every source of waters except these perpetual ones, left the torrent of which I am speaking, and such others, in a state peculiarly favourable to observance of their *least* action on the mountains from which they descend. They were entirely limited to their own ice fountains, and the quantity of powdered rock which they brought down was, of course, at its minimum, being nearly unmingled with any earth derived from the dissolution of softer soil, or vegetable mould, by rains.

At three in the afternoon, on a warm day in September, when the torrent had reached its average maximum strength for the day, I filled an ordinary Bordeaux wine-flask with the water where it was least turbid. From this quart of water I obtained twenty-four grains of sand and sediment, more or less fine. I cannot estimate the quantity of water in the stream; but the runlet of it at which I filled the flask was giving about two hundred bottles a minute, or rather more, carrying down therefore about three quarters of a pound of powdered granite every minute. This would be forty-five pounds an hour; but allowing for the inferior power of the stream in the cooler periods of the day, and taking into consideration, on the other side, its increased power in rain, we may, I think, estimate its average hour's work at twenty-eight or thirty pounds, or a hundredweight every four hours. By this insignificant runlet, therefore, some four inches wide and four inches deep, rather more than two tons of the substance of the Mont Blanc are displaced, and carried down a certain distance every week; and as it is only for three or four months that the flow of the stream is checked by frost, we may certainly allow eighty tons for the mass which it annually moves.

- § 3. It is not worth while to enter into any calculation of the relation borne by this runlet to the great torrents which descend from the chain of Mont Blanc into the valley of Chamouni. To call it the thousandth part of the glacier waters, would give a ludicrous under-estimate of their total power; but even so calling it, we should find for result that eighty thousand tons of

mountain must be yearly transformed into drifted sand, and carried down a certain distance.<sup>1</sup> How much greater than this is the actual quantity so transformed I cannot tell; but take this quantity as certain, and consider that this represents merely the results of the labour of the constant summer streams, utterly irrespective of all sudden falls of stones and of masses of mountain (a single thunderbolt will sometimes leave a scar on the flank of a soft rock, looking like a trench for a railroad); and we shall then begin to apprehend something of the operation of the great laws of change, which are the conditions of all material existence, however apparently enduring. The hills, which, as compared with living beings, seem "everlasting," are, in truth, as perishing as they: its veins of flowing fountain weary the mountain heart, as the crimson pulse does ours; the natural force of the iron crag is abated in its appointed time, like the strength of the sinews in a human old age; and it is but the lapse of the longer years of decay which, in the sight of its Creator, distinguishes the mountain range from the moth and the worm.

§ 4. And hence two questions arise of the deepest interest. From what first created forms were the mountains brought into their present condition? into what forms will they change in the course of ages? Was the world anciently in a more or less perfect state than it is now? was it less or more fitted for the habitation of the human race? and are the changes which it is now undergoing favourable to that race or not? The present conformation of the earth appears dictated, as has been shown in the preceding chapters, by supreme wisdom and kindness. And yet its former state must have been different from what it is now; as its present one from that which it must assume hereafter. Is this, therefore, the earth's prime into which we are born; or is it, with all its beauty, only the wreck of Paradise?

I cannot entangle the reader in the intricacy of the inquiries necessary for anything like a satisfactory solution of these questions.

<sup>1</sup> How far, is another question. The sand which the stream brings from the bottom of one eddy in its course, it throws down in the next; all that is *proved* by the above trial is, that so many tons of material are annually carried down by it a certain number of feet.

But, were he to engage in such inquiries, their result would be his strong conviction of the earth's having been brought from a state in which it was utterly uninhabitable into one fitted for man;—of its having been, when first inhabitable, more beautiful than it is now; and of its gradually tending to still greater inferiority of aspect, and unfitness for abode.

It has, indeed, been the endeavour of some geologists to prove that destruction and renovation are continually proceeding simultaneously in mountains as well as in organic creatures; that while existing eminences are being slowly lowered, others, in order to supply their place, are being slowly elevated; and that what is lost in beauty or healthiness in one spot is gained in another. But I cannot assent to such a conclusion. Evidence altogether incontrovertible points to a state of the earth in which it could be tenanted only by lower animals, fitted for the circumstances under which they lived by peculiar organizations. From this state it is admitted gradually to have been brought into that in which we now see it: and the circumstances of the existing dispensation, whatever may be the date of its endurance, seem to me to point not less clearly to an end than to an origin; to a creation, when "the earth was without form and void," and to a close, when it must either be renovated or destroyed.

§ 5. In one sense, and in one only, the idea of a continuous order of things is admissible, in so far as the phenomena which introduced, and those which are to terminate, the existing dispensation, may have been, and may in future be, nothing more than a gigantic development of agencies which are in continual operation around us. The experience we possess of volcanic agency is not yet large enough to enable us to set limits to its force; and as we see the rarity of subterraneous action generally proportioned to its violence, there may be appointed, in the natural order of things, convulsions to take place after certain epochs, on a scale which the human race has not yet lived long enough to witness. The soft silver cloud which writhes innocently on the crest of Vesuvius, rests there without intermission; but the fury which lays cities in sepulchres of lava bursts forth only after intervals of centuries; and the still fiercer indignation of the

greater volcanoes, which makes half the globe vibrate with earthquake, and shrivels up whole kingdoms with flame, is recorded only in dim distances of history: so that it is not irrational to admit that there may yet be powers dormant, not destroyed, beneath the apparently calm surface of the earth, whose date of rest is the endurance of the human race, and whose date of action must be that of its doom. But whether such colossal agencies are indeed in the existing order of things or not, still the effective truth, for us, is one and the same. The earth, as a tormented and trembling ball, may have rolled in space for myriads of ages before humanity was formed from its dust; and as a devastated ruin it may continue to roll, when all that dust shall again have been mingled with ashes that never were warmed by life, or polluted by sin. But for us the intelligible and substantial fact is that the earth has been brought, by forces we know not of, into a form fitted for our habitation: on that form a gradual, but destructive, change is continually taking place, and the course of that change points clearly to a period when it will no more be fitted for the dwelling-place of men.

- § 6. It is, therefore, not so much what these forms of the earth actually are, as what they are continually becoming, that we have to observe; nor is it possible thus to observe them without an instinctive reference to the first state out of which they have been brought. The existing torrent has dug its bed a thousand feet deep. But in what form was the mountain originally raised which gave that torrent its track and power? The existing precipice is wrought into towers and bastions by the perpetual fall of its fragments. In what form did it stand before a single fragment fell?

Yet to such questions, continually suggesting themselves, it is never possible to give a complete answer. For a certain distance, the past work of existing forces can be traced; but there gradually the mist gathers, and the footsteps of more gigantic agencies are traceable in the darkness; and still, as we endeavour to penetrate farther and farther into departed time, the thunder of the Almighty power sounds louder and louder; and the clouds gather broader and more fearfully, until at last the Sinai of the

world is seen altogether upon a smoke, and the fence of its foot is reached, which none can break through.

- § 7. If, therefore, we venture to advance towards the spot where the cloud first comes down, it is rather with the purpose of fully pointing out that there *is* a cloud, than of entering into it. It is well to have been fully convinced of the existence of the mystery, in an age far too apt to suppose that everything which is visible is explicable, and everything that is present, eternal. But besides ascertaining the existence of this mystery, we shall perhaps be able to form some few conjectures respecting the facts of mountain aspects in the past ages. Not respecting the processes or powers to which the hills owe their origin, but respecting the aspect they first assumed.
- § 8. For it is evident that, through all their ruin, some traces must still exist of the original contours. The directions in which the mass gives way must have been dictated by the disposition of its ancient sides; and the currents of the streams that wear its flanks must still, in great part, follow the course of the primal valleys. So that, in the actual form of any mountain peak, there must usually be traceable the shadow or skeleton of its former self; like the obscure indications of the first frame of a war-worn tower, preserved, in some places, under the heap of its ruins, in others to be restored in imagination from the thin remnants of its tottering shell; while here and there, in some sheltered spot, a few unfallen stones retain their Gothic sculpture, and a few touches of the chisel, or stains of colour, inform us of the whole mind and perfect skill of the old designer. With this great difference, nevertheless, that in the human architecture the builder did not calculate upon ruin, nor appoint the course of impendent desolation; but that in the hand of the great Architect of the mountains, time and decay are as much the instruments of His purpose as the forces by which He first led forth the troops of hills in leaping flocks:—the lightning and the torrent, and the wasting and weariness of innumerable ages, all bear their part in the working out of one consistent plan; and the Builder of the temple for ever stands beside His work, appointing the stone that is to fall, and the pillar that is to be abased, and guiding all the seeming wild-

ness of chance and change, into ordained splendours and foreseen harmonies.

§ 9. Mountain masses, then, considered with respect to their first raising and first sculpture, may be conveniently divided into two great groups; namely, those made up of beds or layers, commonly called stratified; and those made of more or less united substance, called unstratified. The former are nearly always composed of coherent rocks, the latter of crystallines; and the former almost always occupy the outside, the latter the centre, of mountain chains. It signifies, therefore, very little whether we distinguish the groups by calling one stratified and the other unstratified, or one "coherent" and the other "crystalline," or one "lateral" and the other "central." But as this last distinction in position seems to have more influence on their forms than either of the others, it is, perhaps, best, when we are examining them in connection with art, that this should be thoroughly kept in mind; and therefore we will consider the first group under the title of "lateral ranges," and the second under that of "central peaks."

§ 10. The LATERAL RANGES, which we are first to examine, are, for the most part, broad tabular masses of sandstone, limestone, or whatever their material may be, — tilted slightly up over large spaces (several or many miles square), and forming precipices with their exposed edges, as a book resting obliquely on another book forms miniature precipices with its back and sides. The book is a tolerably accurate representation of the mountain in substance, as well as in external aspect; nearly all these tabular masses of rock being composed of a multitude of thinner beds or layers, as the thickness of the book is made up of its leaves; while every one of the mountain leaves is usually written over, though in dim characters, like those of a faded manuscript, with history of departed ages.

"How were these mountain volumes raised, and how are they supported?" are the natural questions following such a statement.

And the only answer is: "Behold the cloud."

No eye has ever seen one of these raised on a large scale; no investigation has brought completely to light the conditions under which the materials which support them were prepared. This only is the simple fact, that they *are* raised into such sloping positions; generally several resting one upon another, like a row of books



Fig. 8.

fallen down (Fig. 8.); the last book being usually propped by a piece of formless compact crystalline rock, represented by the piece of crumpled paper at *a*.

- § 11. It is another simple fact that this arrangement is not effected in an orderly and serene manner; but that the books, if they were ever neatly bound, have been fearfully torn to pieces and dog's-eared in the course of their elevation; sometimes torn leaf from leaf, but more commonly rent across, as if the paper had been wet and soft: or, to leave the book similitude, which is becoming inconvenient, the beds seem to have been in the consistence of a paste, more or less dry; in some places brittle, and breaking, like a cake, fairly across; in others moist and tough, and tearing like dough, or bending like hot iron; and, in others, crushed and shivering into dust like unannealed glass. And in these various states they are either bent or broken, or shivered, as the case may be, into fragments of various shapes, which are usually tossed one on the top of another, as above described; but, of course, under such circumstances, presenting, not the uniform edges of the books, but jagged edges, as in Fig. 9.



Fig. 9.

- § 12. Do not let it be said that I am passing my prescribed limits, and that I have tried to enter the clouds, and am describing operations which have never been witnessed. I describe facts or semblances, not operations. I say "*seem* to have been," not



"have been." I say "*are bent*;" I do not say "*have been bent*."

Most travellers must remember the entrance to the valley of Cluse, from the plain of Bonneville, on the road from Geneva to Chamouni. They remember that immediately after entering it they find a great precipice on their left, not less than two thousand feet in perpendicular height. That precipice is formed by beds of limestone bent like a rainbow,



Fig. 10.

as in Fig. 10. Their edges constitute the cliff; the flat arch which they form with their backs is covered with pine forests and meadows, extending for three or four leagues in the direction of Sixt. Whether the whole mountain was called out of nothing into the form it possesses, or created first in the form of a level mass, and then actually bent and broken by external force, is quite irrelevant to our present purpose; but it is impossible to describe its form without appearing to imply the latter alternative; and all the distinct evidence which can be obtained upon the subject points to such a conclusion, although there are certain features in such mountains which, up to the present time, have rendered all positive conclusion impossible, not because they contradict the theories in question, but because they are utterly inexplicable on any theory whatever.

- § 13. We return then to our Fig. 9., representing beds which *appear* to have been broken short off at the edges. "If they ever were actually broken," the reader asks, "what could have become of the bits?" Sometimes they seem to have been lost, carried away no one knows where. Sometimes they are really found in scattered fragments or dust in the neighbourhood. Sometimes the mountain is simply broken in two, and the pieces correspond to each other, only leaving a valley between; but more frequently one half slips down, or the other is pushed up. In such cases, the coincidence of part with part is sometimes so

exact, that half of a broken pebble has been found on one side, and the other half five or six hundred feet below, on the other.

- § 14. The beds, however, which are to form mountains of any eminence are seldom divided in this gentle way. If brittle, one would think they had been broken as a captain's biscuit breaks, leaving sharp and ragged edges; and if tough, they appear to have been torn asunder very much like a piece of new cheese.

The beds which present the most definite appearances of abrupt fracture, are those of that grey or black limestone above described (Chap. x. § 4.), formed into a number of thin layers or leaves, commonly separated by filmy spreadings of calcareous sand, hard when dry, but easily softened by moisture; the whole, considered as a mass, easily friable, though particular beds may be very thick and hard. Imagine a layer of such substance, three or four thousand feet thick, broken with a sharp crash through the middle, and one piece of it thrown up as in Fig. 11.

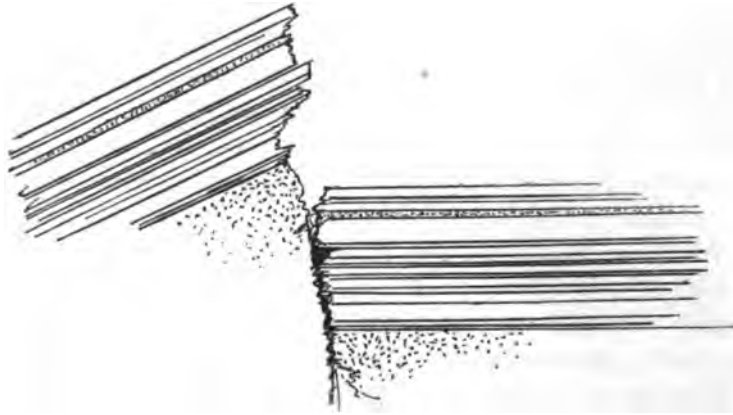


Fig. 11.

It is evident that the first result of such a shock would be a complete shattering of the consistence of the broken edges, and that these would fall, some on the instant, and others tottering and

crumbling away from time to time, until the cliff had got in some degree settled into a tenable form. The fallen fragments would lie in a confused heap at the bottom, hiding perhaps one half of its height, as in Fig. 12.; the top of it, wrought into somewhat less ragged shape, would thenceforward submit itself only to the gradual influences of time and storm.

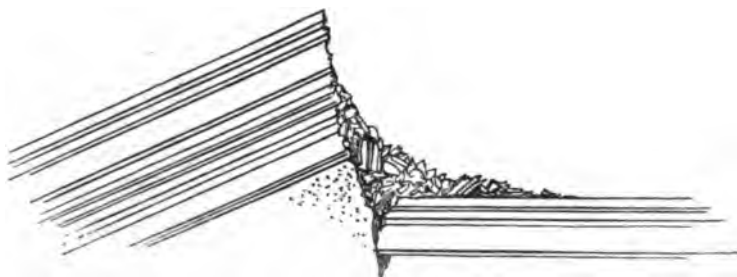


Fig. 12.

I do not say that this operation has actually taken place. I merely say that such cliffs do in multitudes *exist* in the form shown at Fig. 12., or, more properly speaking, in that form modified by agencies in visible operation, whose work can be traced upon them, touch by touch. But the condition at Fig. 12. is the first rough blocking out of their form, the primal state in which they demonstrably were, some thousands of years ago, but beyond which no human reason can trace them without danger of error. The cloud fastens upon them there.

- § 15. It is rare, however, that such a cliff as that represented in Fig. 12. can maintain itself long in such a contour. Usually it moulders gradually away into a steep mound or bank; and the larger number of bold cliffs are composed of far more solid rock, which in its general make is quite unshattered and flawless; apparently unaffected, as far as its coherence is concerned, by any shock it may have suffered in being raised to its position, or hewn into its form. Beds occur in the Alps composed of solid coherent limestone (such as that familiar to the English traveller in the cliffs of Matlock and Bristol), 3000 or 4000 feet thick, and broken short off throughout a great part

of this thickness, forming nearly<sup>1</sup> sheer precipices not less than 1500 or 2000 feet in height, after all deduction has been made for slopes of debris at the bottom, and for rounded diminution at the top.

§ 16. The geologist plunges into vague suppositions and fantastic theories in order to account for these cliffs; but, after all that can be dreamed or discovered, they remain in great part inexplicable. If they were interiorly shattered, it would be easy to understand that, in their hardened condition, they had been broken violently asunder; but it is not easy to conceive a firm cliff of limestone broken through a thickness of 2000 feet without showing a crack in any other part of it. If they were divided in a soft state, like that of paste, it is still less easy to understand how any such soft material could maintain itself, till it dried, in the form of a cliff so enormous and so ponderous: it must have flowed down from the top, or squeezed itself out in bulging protuberance at the base. But it has done neither; and we are left to choose between the suppositions that the mountain was created in a form approximating to that which it now wears, or that the shock which produced it was so violent and irresistible, as to do its work neatly in an instant, and cause no flaws to the rock except in the actual line of fracture. The force must have been analogous either to the light and sharp blow of the hammer with which one breaks a stone into two pieces as it lies in the hand, or the parting caused by settlement under great weight, like the cracks through the brickwork of a modern ill-built house. And yet the very beds which seem at the time they were broken to have possessed this firmness of consistence, are also bent throughout their whole body into waves, apparently following the action of the force that fractured them, like waves of sea under the wind. Truly the cloud lies darkly upon us here!

§ 17. And it renders these precipices more remarkable that there is in them no principle of compensation against destructive influ-

<sup>1</sup> *Nearly*; that is to say, not quite vertical. Of the degree of steepness we shall have more to say hereafter.

ences. They are not cloven back continually into new cliffs, as our chalk shores are by the sea; otherwise, one might attribute their first existence to the force of streams. But, on the contrary, the action of years upon them is now always one of deterioration. The increasing heap of fallen fragments conceals more and more of their base, and the wearing of the rain lowers the height and softens the sternness of their brows, so that a great part of their terror has evidently been subdued by time; and the farther we endeavour to penetrate their history, the more mysterious are the forms we are required to explain.

- § 18. Hitherto, however, for the sake of clearness, we have spoken of hills as if they were composed of a single mass or volume of rock. It is very seldom that they are so. Two or three layers are usually raised at once, with certain general results on mountain form, which it is next necessary to examine.

The three great representative forms of stratified mountains.

1st. Suppose a series of beds raised in the condition *a*, Fig. 13., the lowest soft, the uppermost compact; it is evident that the lower beds would rapidly crumble away, and the compact mass above break for want of support, until the rocks beneath had reached a slope at which they could securely sustain themselves, as well as the weight of wall above, thus bringing the hill into the outline *b*.

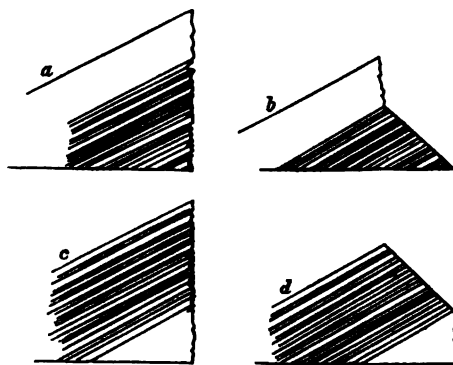


Fig. 13.

2nd. If, on the other hand, the hill were originally raised as at *c*, the softest beds being at the top, these would crumble into their smooth slope without affecting the outline of the mass below, and the hill would assume the form *d*, large masses of debris being in either of these two cases accumulated at the foot of the slope, or of the cliff. These first ruins might, by

2. Slope above wall.

subsequent changes, be variously engulfed, carried away, or covered over, so as to leave nothing visible, or at least nothing notable, but the great cliff with its slope above or below it. Without insisting on the evidences or probabilities of such construction, it is sufficient to state that mountains of the two types, *b* and *d*, are exceedingly common in all parts of the world; and though of course confused with others, and themselves always more or less imperfectly developed, yet they are, on the whole, singularly definite as classes of hills, examples of which can hardly but remain clearly impressed on the mind of every traveller. Of the first, *b*, Salisbury Crags, near Edinburgh, is a nearly perfect instance, though on a diminutive scale. The cliffs of Lauterbrunnen, in the Oberland, are almost without exception formed on the type *d*.

3. Slope and  
wall alternately.

3rd. When the elevated mass, instead of consisting merely of two great divisions, includes alternately hard and soft beds, as at *a*, Fig. 14., the vertical cliffs and inclined banks alternate with each other, and the mountain rises in a series of steps, with receding slopes of turf or debris on the ledge of each, as at *b*. At the head of the valley of Sixt, in Savoy, huge masses of mountain connected with the Buet are thus constructed: their slopes are quite smooth, and composed of good

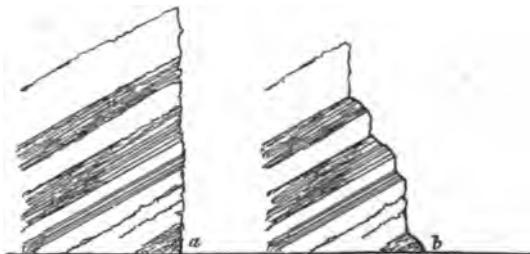


Fig. 14.

pasture land, and the cliffs in many places literally vertical. In the summer the peasants make hay on the inclined pastures; and the hay is "carried" by merely binding the haycocks tight and rolling them down the slope and over the cliff, when I have heard them fall to the bank below, a height of from five to eight hundred feet, with a sound like the distant report of a heavy piece of artillery.

§ 19. The next point of importance in these beds is the curvature,

to which, as well as to fracture, they seem to have been subjected. This curvature is not to be confounded with that rippling or undulating character of every portion of the slaty crystalline rocks above described. I am now speaking of all kinds of rocks indifferently; — not of their appearance in small pieces, but of their great contours in masses, thousands of feet thick. And it is almost universally true of these masses that they do not merely lie in flat superposition, one over another, as the books in Fig. 8.; but they lie in *waves*, more or less vast and sweeping according to the scale of the country, as in Fig. 15.,



Fig. 15.

where the distance from one side of the figure to the other is supposed to be four or five leagues.

§ 20. Now, observe, if the precipices which we have just been describing had been broken when their substance was in a hard state, there appears no reason why any connection should be apparent between the energy of *undulation*, and these *broken* rocks. If the continuous waves were caused by convulsive movements of the earth's surface while its substance was pliable, and were left in repose for so long a period as to become perfectly hard before they were broken into cliffs, there seems no reason why the second series of shocks should so closely have confined itself to the locality which had suffered the first, that the most abrupt precipices should always be associated with the wildest waves. We might have expected that sometimes we should have had noble cliffs raised where the waves had been slight; and sometimes low and slight fractures where the waves had been violent. But this is not so. The contortions and fractures bear always such relation to each other as appears positively to imply contemporaneous formation. Through all the lowland districts of the world the

average contour of the waves of rock is somewhat as represented in Fig. 16. *a*, and the little cliffs or hills formed at the edges of the beds (whether by fracture, or, as oftener happens in such countries, by gradual washing away under the surge of ancient seas) are no higher, in proportion to the extent of surface, than the little steps seen in the centre of the figure. Such is the nature, and such the scale, of the ranges of hill which form our own downs and wolds, and the French coteaux beside their winding rivers. But as we approach the hill countries, the undulation becomes more marked, and the crags more bold; so that almost any portion of such mountain ranges as the Jura or the Vosges will present itself under conditions such as those at *b*,

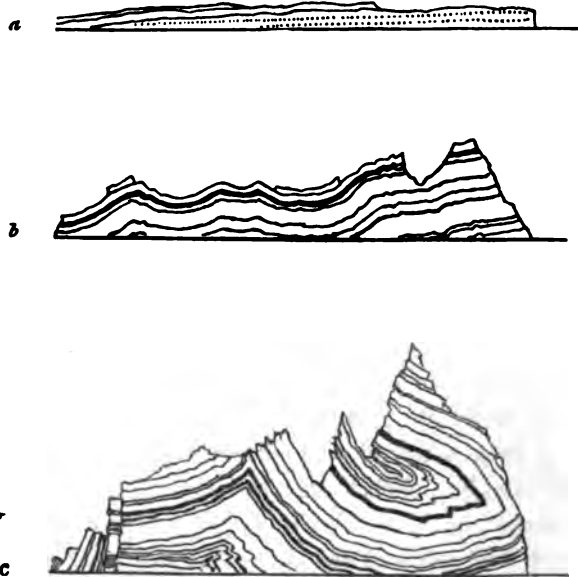


Fig. 16.

the precipices at the edges being bolder in exact proportion to the violence of wave. And, finally, in the central and noblest chains the undulation becomes literally contortion; the



beds occur in such positions as those at *c*, and the precipices are bold and terrific in exact proportion to this exaggerated and tremendous contortion.

- § 21. These facts appear to be just as contrary to the supposition of the mountains having been formed while the rocks were hard, as the considerations adduced in § 15. are to that of their being formed while they were soft. And I believe the more the reader revolves the subject in his thoughts, and the more opportunities he has of examining the existing facts, the less explicable those facts will become to him, and the more reverent will be his acknowledgment of the presence of the cloud.

For, as he examines more clearly the structure of the great mountain ranges, he will find that though invariably the boldest forms are associated with the most violent contortions, they sometimes *follow* the contortions, and sometimes appear entirely independent of them. For instance, in crossing the pass of the Tête Noire, if the traveller defers his journey till near the afternoon, so that from the top of the pass he may see the great limestone mountain in the Valais, called the Dent de Morcles, under the full evening light, he will observe that its peaks are hewn out of a group of contorted beds, as shown in Fig. 4. Plate 29.<sup>1</sup> The wild and irregular zigzag of the beds, which traverse the face of the cliff with the irregularity of a flash of lightning, has apparently not the slightest influence on the outline of the peak. It has been carved out of the mass, with no reference whatever to the interior structure. In like manner, as we shall see hereafter, the most wonderful peak in the whole range of the Alps seems to have been cut out of a series of nearly horizontal beds, as a square pillar of hay is cut out of a half-consumed haystack. And yet on the other hand, we meet perpetually with instances in which the curves of the beds have in great part directed the shape of the whole mass of mountain. The gorge which leads from the village of Ardon, in the Valais, up to the root of the Diablerets, runs between two ranges of limestone hills, of which



Fig. 17.



Fig. 18.

the rude contour is given in Fig. 17. opposite. The great slope seen on the left, rising about seven thousand feet above the ravine, is nothing but the back of one sheet of limestone, whose broken edge forms the first cliff at the top, a height of about six hundred feet, the second cliff being the edge of another bed emergent beneath it, and the slope beyond, the surface of a third. These beds of limestone all descend at a uniform inclination into the gorge, where they are snapped short off, the torrent cutting its way along the cleft, while the beds rise on the other side in a huge contorted wave, forming the ridge of mountains on the right,—a chain about seven miles in length, and from five thousand to six thousand feet in height. The actual order of the beds is seen in Fig. 18., and it is one of the boldest and clearest examples of the form of mountains being correspondent to the curves of beds which I have ever seen; it also exhibits a condition of the summits which is of constant occurrence in stratified hills, and peculiarly important as giving rise to the serrated structure, rendered classical by the Spaniards in their universal term for mountain ridges, *Sierra*, and obtaining for one of the most important members of the Comasque chain of Alps its well known Italian name—*Il Resegone*. Such mountains are not merely successions of irregular peaks, more or less resembling the edge of a much-hacked sword; they are orderly successions of teeth set in one direction, closely resembling those of a somewhat overworn saw, and nearly always produced by successive beds emerging one from beneath the other.

- § 22. In all such cases there is an infinitely greater difficulty in accounting for the forms than in explaining the fracture of a single bed. How, and when, and where, were the other portions carried away? Was each bed once continuous over a much larger space from the point where its edge is now broken off, or have such beds slipped back into some gulf behind them? It is very easy for geologists to speak generally of elevation and convulsion, but very difficult to explain what sort of convulsion it could be which passed forward from the edge of one bed to the edge of another, and broke the required portion off each without

disturbing the rest. Try the experiment in the simplest way: put half a dozen of hard captain's biscuits in a sloping position on a table, and then try, as they lie, to break the edge of each, one by one, without disturbing the rest. At least, you will have to raise the edge before you can break it; to put your hand underneath, between it and the next biscuit, before you can get any purchase on it. What force was it that put its fingers between one bed of limestone 600 feet thick and the next beneath? If you try to break the biscuits by a blow from above, observe the necessary force of your blow, and then conceive, if you can, the sort of hammer that was required to break the 600 feet of rock through in the same way. But, also, you will, ten to one, break two biscuits at the same time. Now, in these serrated formations, two biscuits are *never* broken at the same time. There is no appearance of the slightest jar having taken place affecting the bed beneath. If there be, a huge cliff or gorge is formed at that spot, not a sierra. Thus, in Fig. 18., the beds are affected throughout their united body by the shock which formed the ravine at *a*; but they are broken, one by one, into the cliffs at *b* and *c*. Sometimes one is tempted to think that they must have been slipped back, one from off the other; but there is never any appearance of friction having taken place on their exposed surfaces; in the plurality of instances, their continuance or rise from their roots in waves (see Fig. 16. above) renders the thing utterly impossible; and in the few instances which have been known of such action actually taking place (which have always been on a small scale), the sliding bed has been torn into a thousand fragments almost as soon as it began to move.<sup>1</sup>

- § 23. And, finally, supposing a force found capable of breaking these beds in the manner required, what force was it that carried the fragments away? How were the gigantic fields of shattered marble conveyed from the ledges which were to remain exposed? No signs of violence are found on those ledges; what marks there are, the rain and natural decay have softly traced through a long series of years. Those very time-marks

<sup>1</sup> The Rossberg fall, compared to the convulsions which seem to have taken place in the higher Alps, is like the slip of a paving stone compared to the fall of a tower.

may have indeed effaced mere superficial appearances of convulsion; but could they have effaced all evidence of the action of such floods as would have been necessary to carry bodily away the whole ruin of a block of marble leagues in length and breadth, and a quarter of a mile thick? Ponder over the intense marvellousness of this. The bed at *c* (Fig. 18.) must first be broken through the midst of it into a sharp precipice, without at all disturbing it elsewhere; and then all of it beyond *c* is to be broken up, and carried perfectly away, without disturbing or wearing down the face of the cliff at *c*.

And yet no trace of the means by which all this was effected is left. The rock stands forth in its white and rugged mystery, as if its peak had been born out of the blue sky. The strength that raised it, and the sea that wrought upon it, have passed away, and left no sign; and we have no words wherein to describe their departure, no thoughts to form about their action, than those of the perpetual and unsatisfied interrogation, —

“What ailed thee, O thou sea, that thou fleddest?  
And ye mountains, that ye skipped like lambs?”

## CHAPTER XIII.

OF THE SCULPTURE OF MOUNTAINS:—SECONDLY, THE  
CENTRAL PEAKS.

§ 1. IN the 20th paragraph of the last chapter, it was noticed that ordinarily the most irregular contortions or fractures of beds of rock were found in the districts of most elevated hills, the contortion or fracture thus appearing to be produced at the moment of elevation. It has also previously been stated that the hardness and crystalline structure of the material increased with the mountainous character of the ground; so that we find as almost invariably correlative, the *hardness* of the rock, its *distortion*, and its *height*; and in like manner, its *softness*, *regularity of position*, and *lowness*. Thus, the line of beds in an English range of down, composed of soft chalk which crumbles beneath the fingers, will be as low and continuous as in *a* of Fig. 16. (p. 154.); the beds in the Jura mountains, composed of firm limestone, which needs a heavy hammer stroke to break it, will be as high and wavy as at *b*; and the ranges of Alps, composed of slaty crystallines, yielding only to steel wedges or to gunpowder, will be as lofty and as wild in structure as at *c*. Without this beneficent connection of hardness of material with height, mountain ranges either could not have existed, or would not have been habitable. In their present magnificent form, they could not have existed; and whatever their forms, the frequent falls and crumbings away, which are of little consequence in the low crags of Hastings, Dover, or Lyme, would have been fatal to the population of the valleys beneath, when they took place from heights of eight or ten thousand feet.

§ 2. But this hardening of the material would not have been sufficient, by itself, to secure the safety of the inhabitants. Unless the reader has been already familiarized with geological facts, he must surely have been struck by the prominence of the *bedded* structure in all the instances of mountain form given in the preceding chapter; and must have asked himself, Why are mountains always built in this masonry-like way, rather than in compact masses? Now, it is true that according to present geological theories, the bedded structure was a necessary consequence of the mode in which the materials were accumulated; but it is not less true that this bedded structure is now the principal means of securing the stability of the mass, and is to be regarded as a beneficent appointment, with such special view. That structure compels each mountain to assume the safest contour of which under the given circumstances of upheaval it is capable. If it were all composed of an amorphous mass of stone as at A, Fig. 19., a crack beginning from the top, as at  $x$  in A, might gradually extend downwards in the direction  $xy$  in B, until the whole mass, indicated by the shade, separated itself and fell.

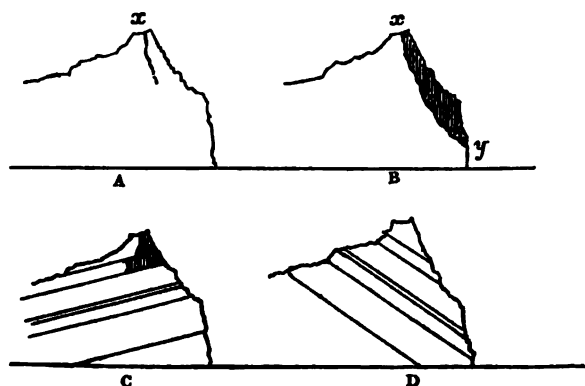


Fig. 19.

But when the whole mountain is arranged in beds, as at C, the crack beginning at the top stops in the uppermost bed, or if it extends to the next, it will be in a different place, and the detached blocks, marked by the shaded portions, are of course still

as secure in their positions as before the crack took place. If, indeed, the beds sloped towards the precipice, as at D, the danger would be greater; but if the reader looks to any of the examples of mountain form hitherto given, he will find that the universal tendency of the modes of elevation is to cause the beds to slope *away* from the precipice, and to build the whole mountain in the form C, which affords the utmost possible degree of security. Nearly all the mountains which rise immediately above thickly peopled districts, though they may appear to be thrown into isolated peaks, are in reality nothing more than flattish ranks of rock, terminated by walls of cliff, of this perfectly safe kind; and it will be part of our task in the succeeding chapter to examine at some length the modes in which sublime and threatening forms are almost deceptively assumed by arrangements of mountain which are in themselves thus simple and secure.

§ 3. It, however, fell within the purpose of the Great Builder to give, in the highest peaks of mountains, examples of form more strange and majestic than any which could be attained by structures so beneficently adapted to the welfare of the human race. And the admission of other modes of elevation, more terrific and less secure, takes place exactly in proportion to the increasing presence of such conditions in the locality as shall render it on other grounds unlikely to be inhabited, or incapable of being so. Where the soil is rich and the climate soft, the hills are low and safe<sup>1</sup>; as the ground becomes poorer and the air keener, they rise into forms of more peril and pride; and their utmost terror is shown only where their fragments fall on trackless ice, and the thunder of their ruin can be heard but by the ibex and the eagle.

§ 4. The safety of the lower mountains depends, as has just been observed, on their tendency to divide themselves into beds. But it will easily be understood that, together with security, such a structure involves some monotony of aspect; and that the possi-

<sup>1</sup> It may be thought I should have reversed these sentences, and written, where the hills are low and safe, the climate is soft, &c. But it is not so. No antecedent reason can be shown why the Mont Cervin or Finsteraarhorn should not have risen sharp out of the plains of Lombardy, instead of out of glaciers.



bility of a rent like that indicated in the last figure, extending itself without a check, so as to detach some vast portion of the mountain at once, would be a means of obtaining accidental forms of far greater awfulness. We find, accordingly, that the bedded structure is departed from in the central peaks; that they are in reality gifted with this power, or, if we choose so to regard it, affected with this weakness, of rending downwards throughout into vertical sheets; and that to this end they are usually composed of that structureless and massive rock which we have characterized by the term "compact crystalline."

§ 5. This, indeed, is not universal. It happens sometimes that toward the centre of great hill ranges ordinary stratified rocks of the coherent groups are hardened into more compact strength than is usual with them; and out of the hardened mass a peak, or range of peaks, is cut as if out of a single block. Thus the well known Dent du Midi of Bex, a mountain of peculiar interest to the English travellers who crowd the various inns and pensions which now glitter along the shores of the Lake of Geneva at Vevay, Clarens, and Montreux, is cut out of horizontal beds of rock which are traceable in the evening light by their dark and light lines along its sides, like courses of masonry; the real form of the mountain being that of the ridge of a steep house-roof, jagged and broken at the top, so that, seen from near St. Maurice, the extremity of the ridge appears a sharp pyramid. The Dent de Morcles, opposite the Dent du Midi, has been already noticed, and is figured in Plate 29. (over leaf) Fig. 4. In like manner, the Matterhorn is cut out of a block of nearly horizontal beds of gneiss. But in all these cases the materials are so hardened and knit together that to all intents and purposes they form one solid mass; and when the forms are to be of the boldest character possible, this solid mass is unstratified, and of compact crystalline rock.

§ 6. In looking from Geneva in the morning light, when Mont Blanc and its companion hills are seen dark against the dawn, almost every traveller must have been struck by the notable range of jagged peaks which bound the horizon immediately to the north-east of Mont Blanc. In ordinary weather

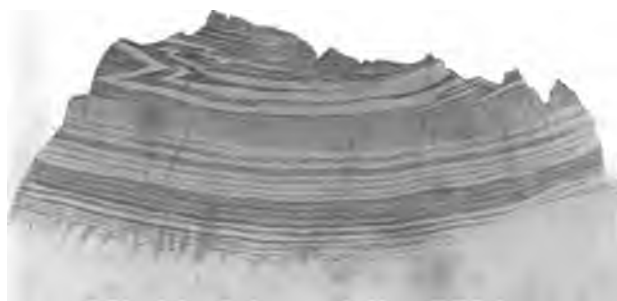
they appear a single chain, but if any clouds or mists happen to float into the heart of the group, it divides itself into two ranges, lower and higher, as in Fig. 1. Plate 29., of which the uppermost and more distant chain is the real crest of the Alps, and the lower and darker line is composed of subordinate peaks which form the south side of the valley of Chamouni, and are therefore ordinarily known as the "Aiguilles of Chamouni."

Though separated by some eight or nine miles of actual distance, the two ranges are part of one and the same system of rock. They are both of them most notable examples of the structure of the compact crystalline peaks, and their jagged and spiry outlines are rendered still more remarkable in any view obtained of them in the immediate neighbourhood of Geneva, by their rising, as in the figure, over two long slopes of comparatively flattish mountain. The highest of these is the back of a stratified limestone range, distant about twenty-five miles, whose precipitous extremity, nodding over the little village of St. Martin's, is well known under the name of the Aiguille de Varens. The nearer line is the edge of another limestone mountain, called the Petit Salève, within five miles of Geneva. And thus we have two ranges of the crystalline rocks opposed to two ranges of the coherents, both having their distinctive characters, the one of vertical fracture, the other of level continuousness, developed on an enormous scale. I am aware of no other view in Europe where the essential characteristics of the two formations are so closely and graphically displayed.

- § 7. Nor can I imagine any person thoughtfully regarding the more distant range, without feeling his curiosity strongly excited as to the method of its first sculpture. That long banks and fields of rock should be raised aslope, and break at their edges into cliffs, however mysterious the details of the operation may be, is yet conceivable in the main circumstances without any great effort of imagination. But the carving of those great obelisks and spires out of an infinitely harder rock; the sculpture of all the fretted pinnacles on the inaccessible and calm elevation of that great cathedral, — how and when was this wrought? It is necessary, before the extent and difficulty of







4 J. Ruskin.

J. C. Arnytage



such a question can be felt, to explain more fully the scale and character of the peaks under consideration.

§ 8. The valley of Chamouni, largely viewed, and irrespectively of minor ravines and irregularities, is nothing more than a deep trench, dug between two ranges of nearly continuous mountains,—dug with a straightness and evenness which render its scenery, in some respects, more monotonous than that of any other Alpine valley. On each side it is bordered by banks of turf, darkened with pine forest, rising at an even slope to a height of about 3000 feet, so that it may best be imagined as a kind of dry moat, which, if cut across, would be of the form typically shown in Fig. 20.; the sloping bank on each side being about 3000 feet high, or the moat about

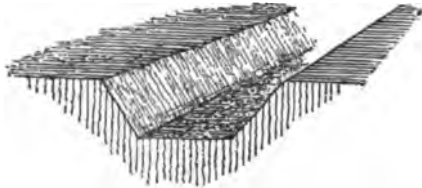


Fig. 20.

three fifths of a mile in vertical depth. Then, on the top of the bank, on each side, and a little way back from the edge of the moat, rise the ranges of the great mountains, in the form of shattered crests and pyramids of barren rock sprinkled with snow. Those on the south side of the valley rise another 3000 feet above the bank on which they stand, so that each of the masses superadded in Fig. 21. may best be described as a sort of Egyptian pyramid<sup>1</sup>, of the height of Snowdon or Ben Lomond, hewn out of solid rock, and set on the shoulder of the great bank which borders the valley. Then the Mont Blanc, a higher and heavier cluster of such summits, loaded with deep snow, terminates the range. Glaciers of greater or less ex-

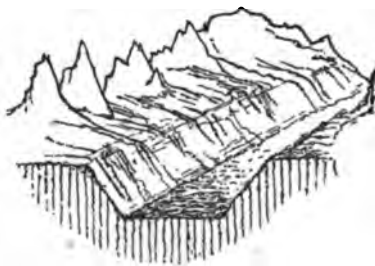


Fig. 21.

<sup>1</sup> I use the terms "pyramid" and "peak" at present, in order to give a rough general idea of the aspects of these hills. Both terms, as we shall see in the next chapter, are to be accepted under limitation.

tent descend between the pyramids of rock; and one, supplied from their largest recesses, even runs down the bank into the valley. Fig. 22.<sup>1</sup> rudely represents the real contours of the



Fig. 22.

<sup>1</sup> This coarse sketch is merely given for reference, as I shall often have to speak of the particular masses of mountain, indicated by the letters in the outline below it; namely—

b. Aiguille Blaitière.  
p. Aiguille du Plan.  
m. Aiguille du Midi.

M. Mont Blanc (summit).  
d. Dôme du Gouté.  
g. Aiguille du Gouté.

T. Tapia.  
c. Montagne de la Côte.  
t. Montagne de Taconay.

q and r indicate stations only.



mountains, including Mont Blanc itself, on its south side. The range of peaks, *b, p, m*, is that already spoken of, known as the "Aiguilles of Chamouni." They form but a very small portion of a great crowd of similar, and, for the most part, larger peaks which constitute the chain of Mont Blanc, and which receive from the Savoyards the name of Aiguilles, or needles, in consequence of their peculiarly sharp summits. The forms of these Aiguilles, wonderful enough in themselves, are, nevertheless, perpetually exaggerated both by the imagination of the traveller, and by the artists whose delineations of them find most frank acceptance. Fig. 1. in Plate 30. (facing p. 181.) is faithfully copied from the representation given of one of these mountains in a plate lately published at Geneva. Fig. 2. in the same plate is a true outline of the mountain itself. Of the exaggerations in the other I shall have more to say presently; meantime, I refer to it merely as a proof that I am not myself exaggerating, in giving Fig. 22. as showing the general characters of these peaks.

- § 9. This, then, is the problem to be considered,—How mountains of such rugged and precipitous outline, and at the least 3000 feet in height, were originally carved out of the hardest rocks, and set in their present position on the top of the green and sloping bank which sustains them.

"By mere accident," the reader replies. "The uniform bank might as easily have been the highest, and the broken granite peaks have risen from its sides, or at the bottom of it. It is merely the chance formation of the valley of Chamouni."

Nay; not so. Although, as if to bring the problem more clearly before the thoughts of men, by marking the structure most where the scenery is most attractive, the formation is more distinct at Chamouni than anywhere else in the Alpine chain; yet the general condition of a rounded bank sustaining jagged or pyramidal peaks is more or less traceable throughout the whole district of the great mountains. The most celebrated spot, next to the valley of Chamouni, is the centre of the Bernese Oberland; and it will be remembered by all travellers that in its

principal valley, that of Grindelwald, not only does the summit of the Wetterhorn consist of a sharp pyramid raised on the advanced shoulder of a great promontory, but the two most notable summits of the Bernese Alps, the Schreckhorn and Finsteraarhorn, cannot be seen from the valley at all, being thrown far back upon an elevated plateau, of which only the advanced head or shoulder, under the name of the Mettenberg, can be seen from the village. The real summits, consisting in each case of a ridge starting steeply from this elevated plateau, as if by a new impulse of angry or ambitious mountain temper, can only be seen by ascending a considerable height upon the flank of the opposite mass of the Faulhorn.

- § 10. And this is, if possible, still more notably and provokingly the case with the great peaks of the chain of Alps between Monte Rosa and Mont Blanc. It will be seen, by a glance at any map of Switzerland, that the district which forms the canton Valais is, in reality, nothing but a ravine sixty miles long, between that central chain and the Alps of the cantons Fribourg and Berne. This ravine is also, in its general structure, merely a deeper and wider *moat* than that already described as forming the valley of Chamouni. It lies, in the same manner, between two *banks* of mountain; and the principal peaks are precisely in the same manner set back upon the tops of these banks; and so provokingly far back, that throughout the whole length of the valley not one of the summits of the chief chain can be seen from it. That usually pointed out to travellers as Monte Rosa is a subordinate, though still very colossal mass, called the Montagne de Saas; and this is the only peak of great size discoverable from the valley throughout its extent; one or two glimpses of the snows, not at any eminent point, being caught through the entrances of the lateral valleys of Evolena, &c.
- § 11. Nor is this merely the consequence of the great *distance* of the central ridge. It would be intelligible enough that the mountains should rise gradually higher and higher towards the middle of the chain, so that the summit at *a* in the upper diagram of Fig. 23. should be concealed by the intermediate eminences *b*, *c*,

from the valley at *d*. But this is not, by any means, the manner in which the concealment is effected. The great peaks stand, as at *a* in the lower diagram, jagged, sharp, and suddenly starting out of a comparatively tame mass of elevated land, through which the trench of the valley of the Rhone is cut, as at *c*.

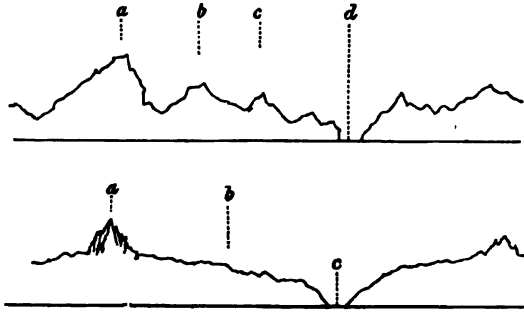


Fig. 23.

The subdivision of the bank at *b* by thousands of ravines, and its rise, here and there, into more or less notable summits, conceal the real fact of the structure from a casual observer. But the longer I stayed among the Alps, and the more closely I examined them, the more I was struck by the one broad fact of there being a vast Alpine plateau, or mass of elevated land, upon which nearly all the highest peaks stood like children set upon a table, removed, in most cases, far back from the edge of the plateau, as if for fear of their falling. And the most majestic scenes in the Alps are produced, not so much by any violation of this law, as by one of the great peaks having apparently walked to the edge of the table to look over, and thus showing itself suddenly above the valley in its full height. This is the case with the Wetterhorn and Eiger at Grindelwald, and with the Grande Jorasse, above the Col de Ferret. But the raised bank or table is always intelligibly in existence, even in these apparently exceptional cases; and, for the most part, the

great peaks are not allowed to come to the edge of it, but remain like the keeps of castles far withdrawn, surrounded, league beyond league, by comparatively level fields of mountain, over which the lapping sheets of glacier writhe and flow, foaming about the feet of the dark central crests like the surf of an enormous sea-breaker hurled over a rounded rock, and islanding some fragment of it in the midst. And the result of this arrangement is a kind of division of the whole of Switzerland into an upper and lower mountain-world; the lower world consisting of rich valleys bordered by steep, but easily accessible, wooded banks of mountain, more or less divided by ravines, through which glimpses are caught of the higher Alps; the upper world, reached after the first steep banks, of 3000 or 4000 feet in height, have been surmounted, consisting of comparatively level but most desolate tracts of moor and rock, half-covered by glacier, and stretching to the feet of the true pinnacles of the chain.

- § 12. It can hardly be necessary to point out the perfect wisdom and kindness of this arrangement, as a provision for the safety of the inhabitants of the high mountain regions. If the great peaks rose at once from the deepest valleys, every stone which was struck from their pinnacles, and every snow-wreath which slipped from their ledges, would descend at once upon the inhabitable ground, over which no year would pass without recording some calamity of earth-slip or avalanche; while, in the course of their fall, both the stones and the snow would strip the woods from the hill sides, leaving only naked channels of destruction where there are now the sloping meadow and the chestnut glade. Besides this, the masses of snow, cast down at once into the warmer air, would all melt rapidly in the spring, causing furious inundation of every great river for a month or six weeks. The snow being then all thawed, except what lay upon the highest peaks in regions of nearly perpetual frost, the rivers would be supplied during the summer, only by fountains, and the feeble tricklings on sunny days from the high snows. The Rhone under such circumstances would hardly be larger at Lyons than the Severn at Shrewsbury, and many Swiss valleys would be left almost without

moisture. All these calamities are prevented by the peculiar Alpine structure which has been described. The broken rocks and the sliding snow of the high peaks, instead of being dashed at once to the vales, are caught upon the desolate shelves or shoulders which everywhere surround the central crests. The soft banks which terminate these shelves, traversed by no falling fragments, clothe themselves with richest wood; while the masses of snow heaped upon the ledge above them, in a climate neither so warm as to thaw them quickly in the spring, nor so cold as to protect them from all the power of the summer sun, either form themselves into glaciers, or remain in slowly wasting fields even to the close of the year,—in either case supplying constant, abundant, and regular streams to the villages and pastures beneath, and to the rest of Europe, noble and navigable rivers.

§ 13. Now, that such a structure is the best and wisest possible, is, indeed, sufficient reason for its existence; and to many people it may seem useless to question farther respecting its origin. But I can hardly conceive any one standing face to face with one of these towers of central rock, and yet not also asking himself, Is this indeed the actual first work of the Divine Master on which I gaze? Was the great precipice shaped by His finger, as Adam was shaped out of the dust? Were its clefts and ledges carved upon it by its Creator, as the letters were on the Tables of the Law, and was it thus left to bear its eternal testimony to His beneficence among these clouds of heaven? Or is it the descendant of a long race of mountains, existing under appointed laws of birth and endurance, death and decrepitude?

§ 14. There can be no doubt as to the answer. The rock itself answers audibly by the murmur of some falling stone or rending pinnacle. It is *not* as it was once. Those waste leagues around its feet are loaded with the wrecks of what it was. On these, perhaps, of all mountains, the characters of decay are written most clearly; around these are spread most gloomily the memorials of their pride, and the signs of their humiliation.

“What then were they once?”

The only answer is yet again,—“Behold the cloud.”

Their form, as far as human vision can trace it, is one of eternal decay. No retrospection can raise them out of their ruins, or withdraw them beyond the law of their perpetual fate. Existing science may be challenged to form, with the faintest colour of probability, any conception of the original aspect of a crystalline mountain: it cannot be followed in its elevation, nor traced in its connection with its fellows. No eyes ever “saw its substance, yet being imperfect;” its history is a monotone of endurance and destruction: all that we can certainly know of it, is that it was once greater than it is now, and it only gathers vastness, and still gathers, as it fades into the abyss of the unknown.

§ 15. Yet this one piece of certain evidence ought not to be altogether unpursued; and while, with all humility, we shrink from endeavouring to theorize respecting processes which are concealed, we ought not to refuse to follow, as far as it will lead us, the course of thought which seems marked out by conspicuous and consistent phenomena. Exactly as the form of the lower mountains seems to have been produced by certain raisings and bendings of their formerly level beds, so the form of these higher mountains seems to have been produced by certain breakings away from their former elevated mass. If the process appears in either case doubtful, it is less so with respect to the higher hills. We may not easily believe that the steep limestone cliffs on one side of a valley, now apparently secure and steadfast, ever were united with the cliffs on the other side; but we cannot hesitate to admit that the peak which we see shedding its flakes of granite on all sides of it, as a fading rose lets fall its leaves, was once larger than it is, and owes the present characters of its form chiefly to the modes of its diminution.

§ 16. Holding fast this clue, we have next to take into consideration another fact of not less importance,—that over the whole of the rounded banks of lower mountain, wherever they have been in anywise protected from the injuries of time, there are yet visible the tracks of ancient glaciers. I will not here enter into detail respecting the mode in which traces of glaciers are dis-

tinguishable. It is enough to state that the footmark, so to speak, of a glacier is just as easily recognizable as the trail of any well-known animal; and that with as much confidence as we should feel in asserting that a horse had passed along a soft road which yet retained the prints of its shoes, it may be concluded that the glaciers of the Alps had once triple or quadruple the extent that they have now; so that not only the banks of inferior mountains were once covered with sheets of ice, but even the great valley of the Rhone itself was the bed of an enormous "Mer de Glace," which extended beyond the Lake of Geneva to the slopes of Jura.<sup>1</sup>

- § 17. From what has already been noted of glacier action, the reader cannot but be aware that its universal effect is to round and soften the contours of the mountains subjected to it; so that a glacier may be considered as a vast instrument of friction, a white sand-paper, applied slowly but irresistibly to all the roughnesses of the hill which it covers. And this effect is of course greatest when the ice flows fastest, and contains more embedded stones; that is to say, greater towards the lower part of a mountain than near its summit.

Suppose now a chain of mountains raised in any accidental form, only of course highest where the force was greatest, — that is to say, at the centre of the chain, — and presenting any profile such as *a*, Fig. 24. over leaf; terminated, perhaps, by a broken secondary cliff, and the whole covered with a thick bed of glacier, indicated by the spotted space, and moving in the direction of the arrows. As it wears away the mountain, not at all at the top, but always more and more as it descends, it would in process of time reduce the contour of the flank of the hill to the form at *b*. But at this point the snow would begin to slide from the central peak, and to leave its rocks exposed to the action of the atmosphere. Supposing those rocks disposed to break into vertical sheets, the summit would soon cleave itself into such a form as that

<sup>1</sup> The glacier tracks on the gneiss of the great angle opposite Martigny are the most magnificent I ever saw in the Alps; those above the channel of the Trient, between Valorsine and the valley of the Rhone, the most interesting.

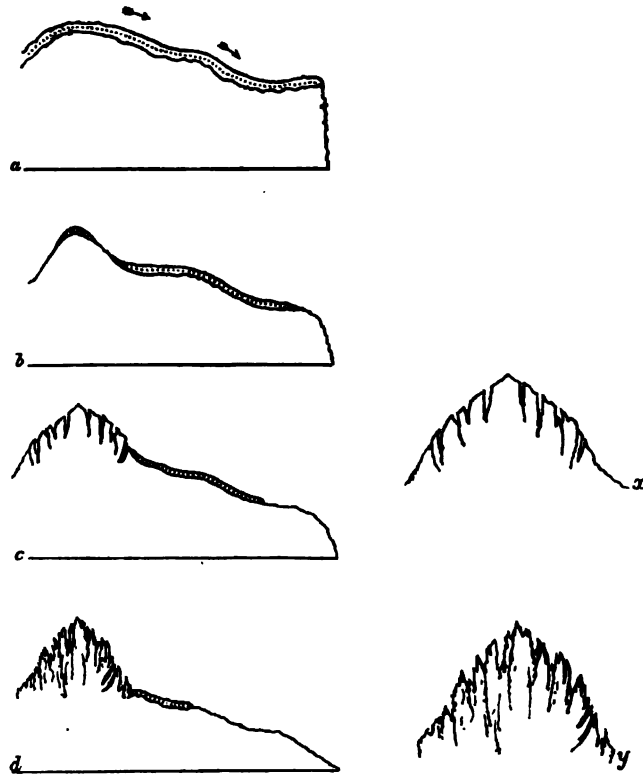


Fig. 24.

at *x*; and the flakes again subdividing and falling, we should have conditions such as at *y*. Meanwhile the glacier is still doing its work uninterruptedly on the lower bank, bringing the mountain successively into the outlines *c* and *d*, in which the forms *x* and *y* are substituted consecutively for the original summit. But the level of the whole flank of the mountain being now so much reduced, the glacier has brought itself by its own work into warmer climate, and has wrought out its own destruction. It would gradually be thinned away, and in many places at last vanish, leaving only the barren rounded mountains, and the tongues of ice still supplied from the peaks above.

§ 18. Such is the actual condition of the Alps at this moment.



I do not say that they have in reality undergone any such process. But I think it right to put the supposition before the reader, more with a view of explaining what the appearance of things actually is, than with any wish that he should adopt either this or any other theory on the subject. It facilitates a description of the Brèche de Roland to say, that it looks as if the peer had indeed cut it open with a swordstroke; but it would be unfair to conclude that the describer gravely wished the supposition to be adopted as explanatory of the origin of the ravine. In like manner, the reader who has followed the steps of the theory I have just offered, will have a clearer conception of the real look and anatomy of the Alps than I could give him by any other means. But he is welcome to accept in seriousness just as much or as little of the theory as he likes.<sup>1</sup> Only I am well persuaded that the more familiar any one becomes with the chain of the Alps, the more, whether voluntarily or not, the idea will force itself upon him of their being mere remnants of large masses,—splinters and fragments, as of a stranded wreck, the greater part of which has been removed by the waves; and the more he will be convinced of the existence of two distinct regions, one, as it were, below the ice, another above it,—one of subjected, the other of emergent rock; the lower worn away by the action of the glaciers and rains, the higher splintering and falling to pieces by natural disintegration.

§ 19. I press, however, neither conjecture nor inquiry farther; having already stated all that is necessary to give the reader a complete idea of the different divisions of mountain form.

<sup>1</sup> For farther information respecting the glaciers and their probable action, the reader should consult the works of Professor Forbes. I believe this theory of the formation of the upper peaks has been proposed by him, and recently opposed by Mr. Sharpe, who believes that the great bank spoken of in the text was originally a sea-bottom. But I have simply stated in this chapter the results of my own watchings of the Alps; for being without hope of getting time for available examination of the voluminous works on these subjects, I thought it best to read nothing (except Forbes's most important essay on the glaciers, several times quoted in the text), and therefore to give, at all events, the force of independent witness to such impressions as I received from the actual facts; De Saussure, always a faithful recorder of those facts, and my first master in geology, being referred to, occasionally, for information respecting localities I had not been able to examine.

I proceed now to examine the points of pictorial interest in greater detail; and in order to do so more conveniently, I shall adopt the order, in description, which Nature seems to have adopted in formation; beginning with the mysterious hardness of the central crystallines, and descending to the softer and lower rocks which we see in some degree modified by the slight forces still in operation. We will therefore examine: 1. the pictorial phenomena of the central peaks; 2. those of the summits of the lower mountains round them, to which we shall find it convenient to give the distinguishing name of Crests; 3. the formation of Precipices, properly so called; then, the general aspect of the Banks and Slopes, produced by the action of water or of falling debris, on the sides or at the bases of mountains; and finally, remove, if it may be, a few of the undeserved scorns thrown upon our most familiar servants, Stones. To each of these subjects we shall find it necessary to devote a distinct chapter.

## CHAPTER XIV.

## RESULTING FORMS:—FIRST, AIGUILLES.

- § 1. I HAVE endeavoured in the preceding chapters always to keep the glance of the reader on the broad aspect of things, and to separate for him the mountain masses into the most distinctly comprehensible forms. We must now consent to take more pains, and observe more closely.
- § 2. I begin with the Aiguilles. In Fig. 24. p. 174., at *a*, it was assumed that the mass was raised highest merely where the elevating force was greatest, being of one substance with the bank or cliff below. But it hardly ever *is* of the same substance. Almost always it is of compact crystallines, and the bank of slaty crystallines; or if it be of slaty crystallines the bank is of slaty coherents. The bank is almost always the softer of the two.<sup>1</sup>

Is not this very marvellous? Is it not exactly as if the substance had been prepared soft or hard with a sculpturesque view to what had to be done with it; soft, for the glacier to mould, and the torrent to divide; hard, to stand for ever, central in mountain majesty?

- § 3. Next, then, comes the question, How do these compact crystallines and slaty crystallines join each other? It has long been a well recognized fact in the science of geology, that the most important mountain ranges lift up and sustain upon their sides the beds of rock which form the inferior groups of hills around them, in the manner roughly shown in the section Fig. 25., where the dark mass stands for the hard rock of the



Fig. 25.

<sup>1</sup> See, for explanatory statements, Appendix 2.

great mountains (crystallines), and the lighter lines at the side of it indicate the prevalent direction of the beds in the neighbouring hills (coherents), while the spotted portions represent the gravel and sand of which the great plains are usually composed. But it has not been so universally recognized, though long ago pointed out by De Saussure, that the great central groups are often themselves composed of beds lying in a precisely opposite direction; so that if we analyze carefully the structure of the dark mass in the centre of Fig. 25., we shall find it arranged in lines which slope downwards to the centre; the flanks of it being of slaty crystalline rock, and the summit of compact crystallines, as at *a*, Fig. 26.

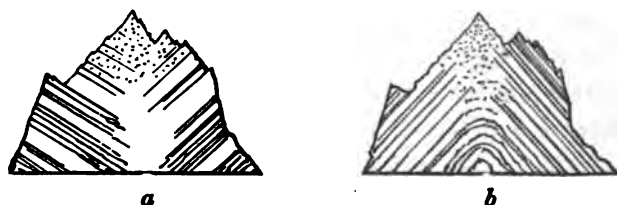


Fig. 26.

In speaking of the sculpture of the central peaks in the last chapter, I made no reference to the *nature* of the rocks in the banks on which they stood. The diagram at *a*, Fig. 27., as representative of the original condition, and *b*, of the resultant condition, will, compared with Fig. 24. p. 174., more completely illustrate the change.<sup>1</sup>

- § 4. By what secondary laws this structure may ultimately be discovered to have been produced is of no consequence to us at present; all that it is needful for us to note is the beneficence which appointed it for the mountains destined to assume the

<sup>1</sup> I have been able to examine these conditions with much care in the chain of Mont Blanc only, which I chose for the subject of investigation both as being the most interesting to the general traveller, and as being the only range of the central mountains which had been much painted by Turner. But I believe the singular arrangements of beds which take place in this chain have been found by the German geologists to prevail also in the highest peaks of the western Alps; and there are a peculiar beauty and providence in them which induce me to expect that farther inquiries may justify our attributing them to some very extensive law of the earth's structure. See the notes from De Saussure in Appendix 2.

boldest forms. For into whatever outline they may be sculptured by violence or time, it is evident at a glance that their stability and security must always be the greatest possible under the given circumstances. Suppose, for instance, that the peak is in such a form as *a* in Fig. 26., then, however steep the slope may be on either side, there is still no chance of

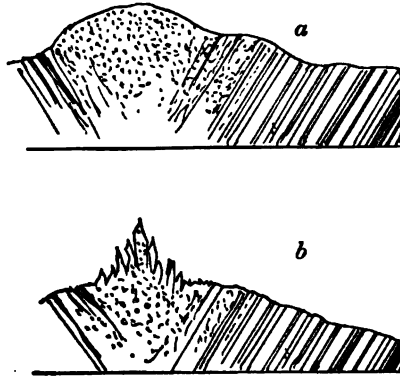


Fig. 27.

one piece of rock sliding off another; but if the same outline were given to beds disposed as at *b*, the unsupported masses might slide off those beneath them at any moment, unless prevented by the inequalities of the surfaces. Farther, in the minor divisions of the outline, the tendency of the peak at *a* will be always to assume contours like those at *a* in Fig. 28.,

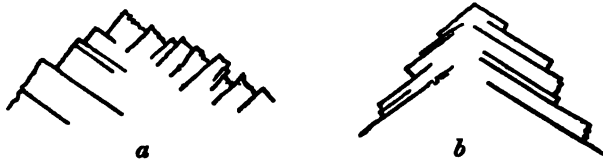


Fig. 28.

which are, of course, perfectly safe; but the tendency of the beds at *b* in Fig. 27. will be to break into contours such as at *b* here, which are all perilous, not only in the chance of each several portion giving way, but in the manner in which they would *deliver*, from one to the other, the fragments which fell. A stone detached from any portion of the peak at *a* would be caught and stopped on the ledge beneath it; but a fragment loosened from *b* would not stay till it reached the valley by a series of accelerating bounds.

- § 5. While, however, the secure and noble form represented at *a* in Figs. 26. and 28. is for the most part ordained to be that of the highest mountains, the contours at *b*, in each figure, are of perpetual occurrence among the secondary ranges, in which, on a smaller scale, they produce some of the most terrific and fantastic forms of precipice; not altogether without danger, as has been fearfully demonstrated by many a "bergfall" among the limestone groups of the Alps; but with far less danger than would have resulted from the permission of such forms among the higher hills; and with collateral advantages which we shall have presently to consider. In the meantime, we return to the examination of the superior groups.
- § 6. The reader is, no doubt, already aware that the chain of the Mont Blanc is bordered by two great valleys, running parallel to each other, and seemingly excavated on purpose that travellers might be able to pass, foot by foot, along each side of the Mont Blanc and its aiguilles, and thus examine every peak in succession. One of these valleys is that of Chamouni, the other that of which one half is called the Allée Blanche, and the other the Val Ferret, the town of Cormayeur being near its centre, where it opens to the Val d'Aosta. Now, cutting the chain of Mont Blanc right across, from valley to valley, through the double range of aiguilles,

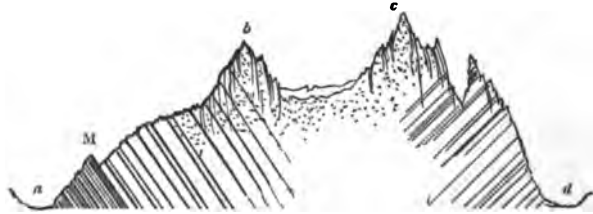
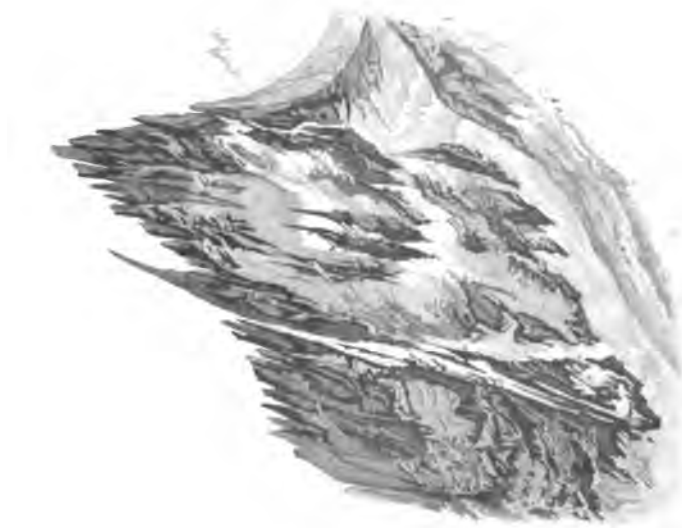


Fig. 29.

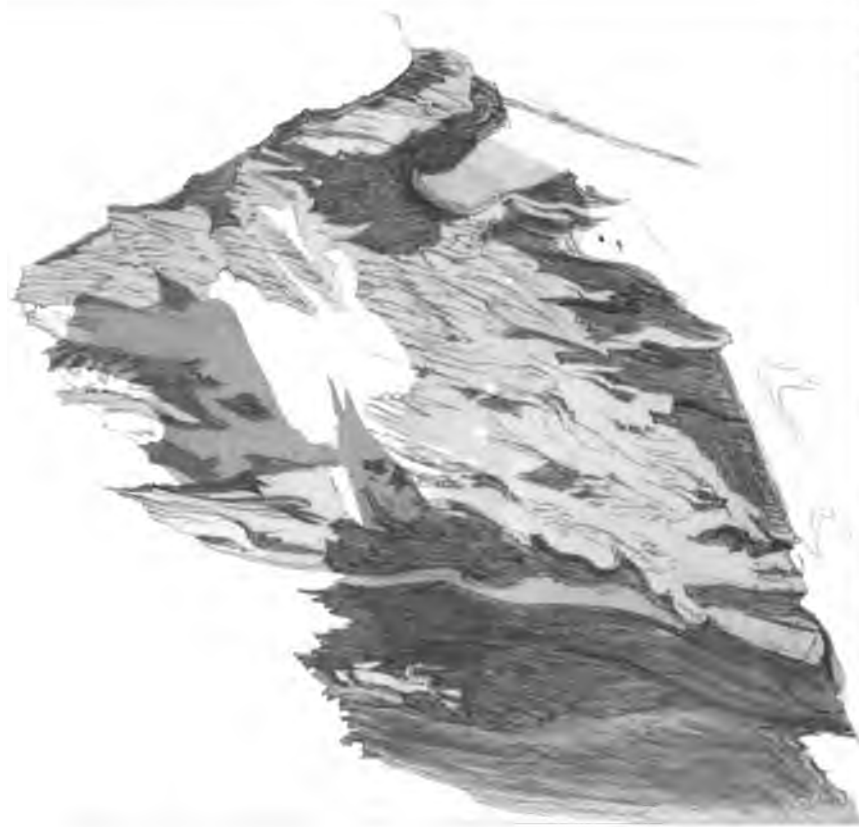
the section would be<sup>1</sup> as Fig. 29. here, in which *a* is the valley of Chamouni, *b* the range of aiguilles of Chamouni, *c* the range of the Géant, *d* the valley of Cormayeur.

<sup>1</sup> That is to say, as it appears to me. There are some points of the following statements which are disputed among geologists; the reader will find them hereafter discussed at greater length.





Bequet et Du Buis



J. Huskin

R. P. Cuff

### 30. The Aiguille Charnoz

Ideal

Actual







The little projection under *m* is intended to mark approximately the position of the so well-known "Montanvert." It is a great weakness, not to say worse than weakness, on the part of travellers, to extol always chiefly what they think fewest people have seen or can see. I have climbed much, and wandered much, in the heart of the high Alps, but I have never yet seen anything which equalled the view from the cabin of the Montanvert; and as the spot is visited every year by increasing numbers of tourists, I have thought it best to take the mountains which surround it for the principal subjects of our inquiry.

§ 7. The little eminence left under *m* truly marks the height of the Montanvert on the flanks of the aiguilles, but not accurately its position, which is somewhat behind the mass of mountain supposed to be cut through by the section. But the top of the Montanvert is actually formed, as shown at *m*, by the crests of the oblique beds of slaty crystallines. Every traveller must remember the steep and smooth beds of rock, like sloping walls, down which, and over the ledges of which, the path descends from the cabin to the edge of the glacier. These sloping walls are formed by the inner sides of the crystalline beds<sup>1</sup>, as exposed in the notch behind the letter *m*.

§ 8. To these beds we shall return presently, our object just now being to examine the aiguille, which, on the Montanvert, forms the most conspicuous mass of mountain on the right of the spectator. It is known in Chamouni as the Aiguille des Charmoz, and is distinguished by a very sharp horn or projection on its side, which usually attracts the traveller's attention as one of the most singular minor features in the view from the Montanvert. The larger masses of the whole aiguille, and true contour of this horn, are carefully given in Plate 30. Fig. 2. as they are seen in morning sunshine. The *impression* which travellers usually carry away with them is, I presume, to be gathered from Fig. 1., a facsimile of one of the lithographs purchased with avidity by English travellers, in the shops of Chamouni and Geneva, as giving a

<sup>1</sup> Running, at that point very nearly, *n. n.* and *s. w.*, and dipping under the ice at an angle of about seventy degrees.

faithful representation of this *aiguille* seen from the Montanvert. It is worth while to perpetuate this example of the ideal landscape of the nineteenth century, popular at the time when the works of Turner were declared by the public to be extravagant and unnatural.

- § 9. This example of the common ideal of *aiguilles* is, however, useful in another respect. It shows the strong impression which these Chamouni mountains leave, of their being above all others sharp-peaked and splintery, dividing more or less into arrowy spires; and it marks the sense of another and very curious character in them, that these spires are apt to be somewhat bent or curved.

Both these impressions are partially true, and need to be insisted upon, and cleared of their indistinctness, or exaggeration.

First, then, this strong impression of their peakedness and spiry separateness is always produced with the least possible *danger* to the travelling and admiring public; for if in reality these granite mountains were ever separated into true spires or points, in the least resembling this popular ideal in Plate 30., the Montanvert and Mer de Glace would be as inaccessible, except at the risk of life, as the trenches of a besieged city; and the continual fall of the splintering fragments would turn even the valley of Chamouni itself into a stony desolation.

- § 10. Perhaps in describing mountains with any effort to give some idea of their sublime forms, no expression comes oftener to the lips than the word "peak." And yet it is curious how rarely, even among the grandest ranges, an instance can be found of a mountain ascertainably peaked in the true sense of the word, — pointed at the top, and sloping steeply on all sides; perhaps not more than five summits in the chain of the Alps, the Finster-Aarhorn, Wetterhorn, Bietsch-horn, Weissahorn, and Monte Viso presenting approximations to such a structure. Even in the case of not very steep pyramids, presenting themselves in the distance under some such outline as that at the top of Fig. 30., it almost invariably happens, when we approach and examine them, that they do not slope equally on all their sides, but are nothing more than steep ends of ridges, supported

by far-extended masses of comparatively level rock, which, seen in perspective, give the impression of a steep slope, though in reality disposed in a horizontal, or nearly horizontal, line.

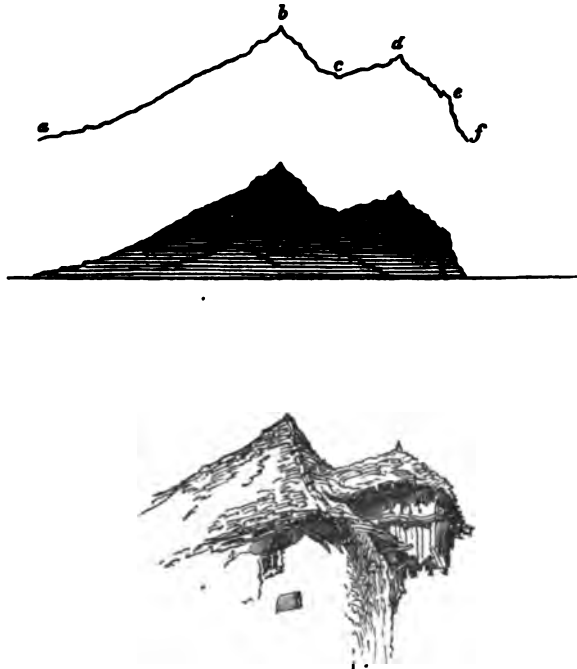


Fig. 30.

§ 11. Supposing the central diagram in Fig. 30. to be the apparent contour of a distant mountain, then its slopes may indeed, by singular chance, be as steep as they appear; but, in all probability, several of them are perspective descents of its retiring lines; and supposing it were formed as the gable roof of the old French house below, and seen under the same angle, it is evident that the part of the outline *ab* (in lettered reference line above) would be perfectly horizontal; *bc*, an angle slope, in retiring perspective, much less steep than it appears; *cd*, perfectly horizontal; *de*, an advancing or foreshortened angle slope, less steep than it appears; and *ef*, perfectly horizontal.

But if the pyramid presents itself under a more formidable

aspect, and with steeper sides than those of the central diagram, then it may be assumed (as far as I know mountains) for next to a certainty, that it is not a pointed obelisk, but the end of a ridge more or less prolonged, of which we see the narrow edge or section turned towards us.

For instance, no mountain in the Alps produces a more vigorous impression of peakedness than the Matterhorn. In Professor Forbes's work on the Alps, it is spoken of as an "obelisk" of rock, and represented with little exaggeration in his seventh plate under the outline Fig. 31. Naturally, in glancing, whether at the plate or the mountain, we assume the mass to be a peak, and suppose the line *ab* to be the steep slope of its side. But that line is a perspective line. It is in reality *perfectly horizontal*, corresponding to *ef* in the penthouse roof Fig. 30.

- § 12. I say "perfectly horizontal," meaning, of course, in general tendency. It is more or less irregular and broken, but so nearly horizontal that, after some prolonged examination of the data I have collected about the Matterhorn, I am at this moment in doubt *which is its top*. For as, in order to examine the beds on its flanks, I walked up the Zmutt glacier, I saw that the line *ab* in Fig. 31. gradually lost its steepness; and about half-way up the glacier, the conjectural summit *a* then bearing nearly S.E. (forty degrees east of south), I found the contour was as in Fig. 32. In Fig. 33. p. 186. I have given the contour as seen from Zermatt; and in all three, the same letters indicate the same points. In the Figures 32. and 33. I measured the angles with the greatest care<sup>1</sup>, from the base lines *xy*, which are accurately horizontal; and their general truth, irrespective of mere ruggedness, may be depended upon. Now in this flank view, Fig. 32., what *was* the summit at Zermatt, *a*, becomes quite subordinate, and the point *b*, far down the flank in Forbes'

<sup>1</sup> It was often of great importance to me to ascertain these *apparent* slopes with some degree of correctness. In order to do so without the trouble of carrying any instrument (except my compass and spirit-level), I had my Alpine pole made as even as a round rule for about a foot in the middle of its length. Taking the bearing of the mountain, placing the pole at right angles to the bearing, and adjusting it by the spirit-level, I brought the edge of a piece of finely cut pasteboard parallel, in a vertical plane (plumbed), with the apparent slope of the hill side. A pencil line drawn by the pole then gave me a horizon, with which the angle could be easily measured at home. The measurements thus obtained are given under the figures.

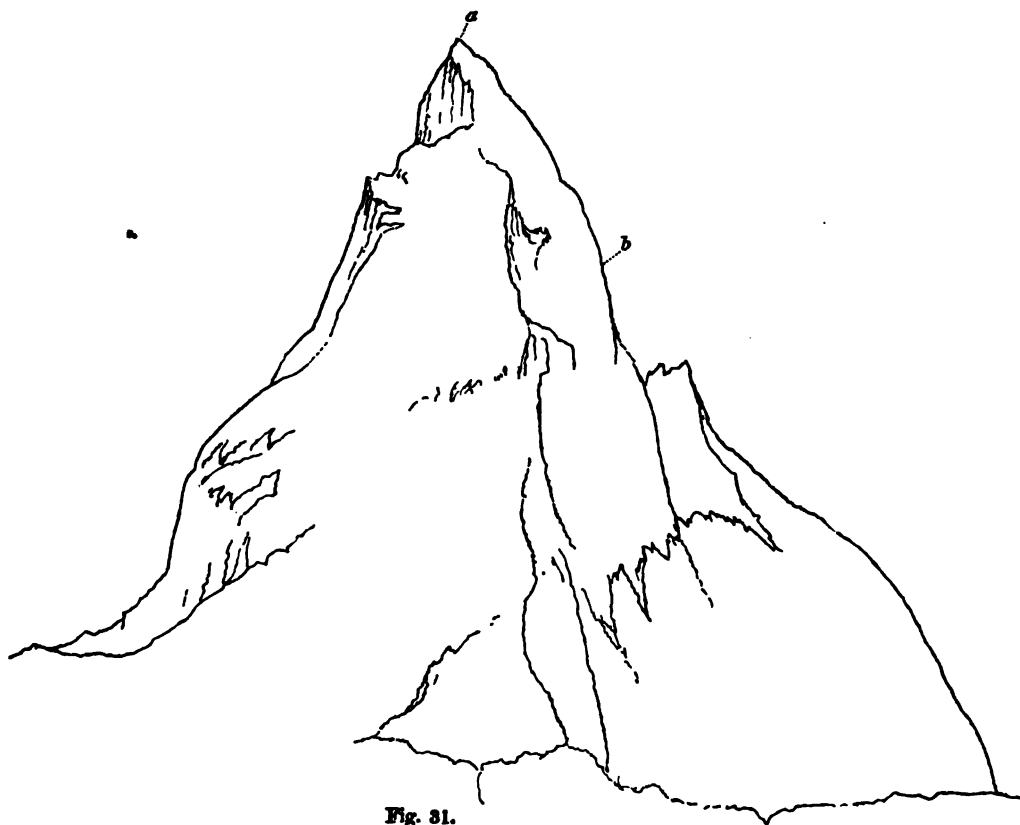


Fig. 31.

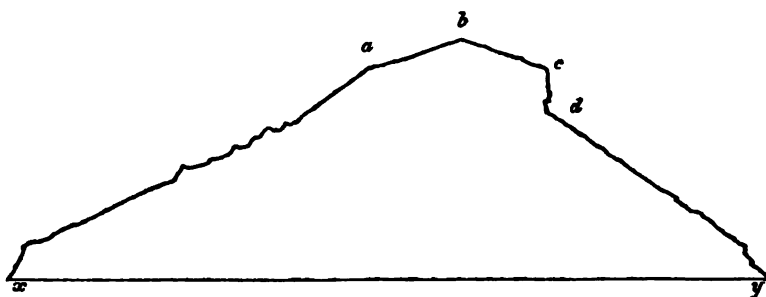


Fig. 32.

| Angles with the horizon $xy$ . |   |                   |                                                                                   |
|--------------------------------|---|-------------------|-----------------------------------------------------------------------------------|
| Of the line $ab$ -             | - | - $17^\circ$      | Of the line $dy$ (general slope, exclusive of inequalities) $35\frac{1}{2}^\circ$ |
| $bc$ -                         | - | - $20\frac{1}{2}$ | $ax$ (ditto, ditto, to point of cliff above $x$ ) - $23\frac{1}{2}$               |

view, taken from the Riffelhorn, is here the apparent summit. I was for some time in considerable doubt which of the appearances was most trustworthy; and believe now that they are *both* deceptive; for I found, on ascending the flank of the hills on the other

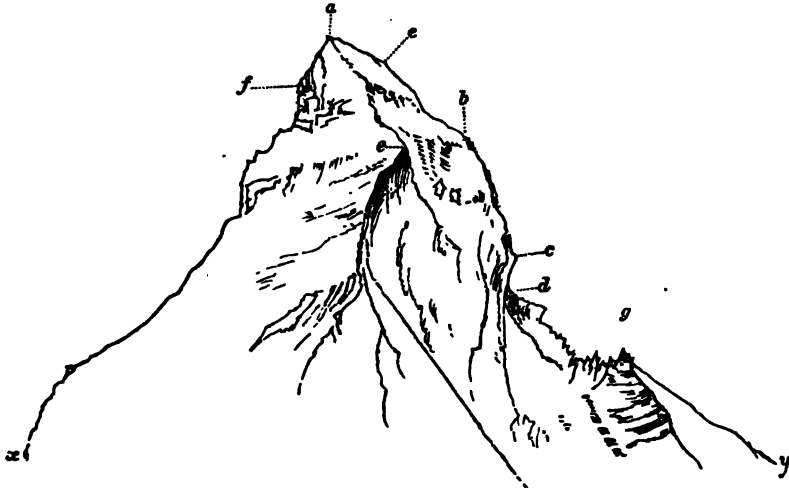


Fig. 33.

Angles with the horizon  $x, y$ .

|                             |   |   |   |                 |                                        |   |   |                 |
|-----------------------------|---|---|---|-----------------|----------------------------------------|---|---|-----------------|
| $a f$                       | - | - | - | $56^{\circ}$    | $c d$ (overhanging)                    | - | - | $79^{\circ}$    |
| $a e$                       | - | - | - | $12\frac{1}{2}$ | $a x$ (irrespective of irregularities) | - | - | $56$            |
| $e b$ (from point to point) | - | - | - | $44\frac{1}{2}$ | $a y$                                  | - | - | $38\frac{1}{2}$ |
| $b c$ ( ditto, ditto )      | - | - | - | $67\frac{1}{2}$ |                                        |   |   |                 |

side of the Valais, to a height of about five thousand feet above Brieg, between the Aletsch glacier and Bietsch-horn; being thus high enough to get a view of the Matterhorn on something like distant terms of equality, up the St. Nicholas valley, it presented itself under the outline Fig. 34., which seems to be conclusive for the supremacy of the point  $e$ , between  $a$  and  $b$  in Fig. 33. But the impossibility of determining, at the foot of it, without a trigonometrical observation, *which is the top* of such an apparent peak as the Matterhorn, may serve to show the reader how little the eye is to be trusted for the verification of peaked outline.



Fig. 34.



§ 13. In like manner, the aiguilles of Chamouni, which present themselves to the traveller, as he looks up to them from the village, under an outline approximating to that rudely indicated at C in the next figure, are in reality buttresses projecting from an intermediate ridge. Let A be supposed a castle wall, with slightly elevated masses of square-built buttresses at intervals. Then, by process of dilapidation, these buttresses might

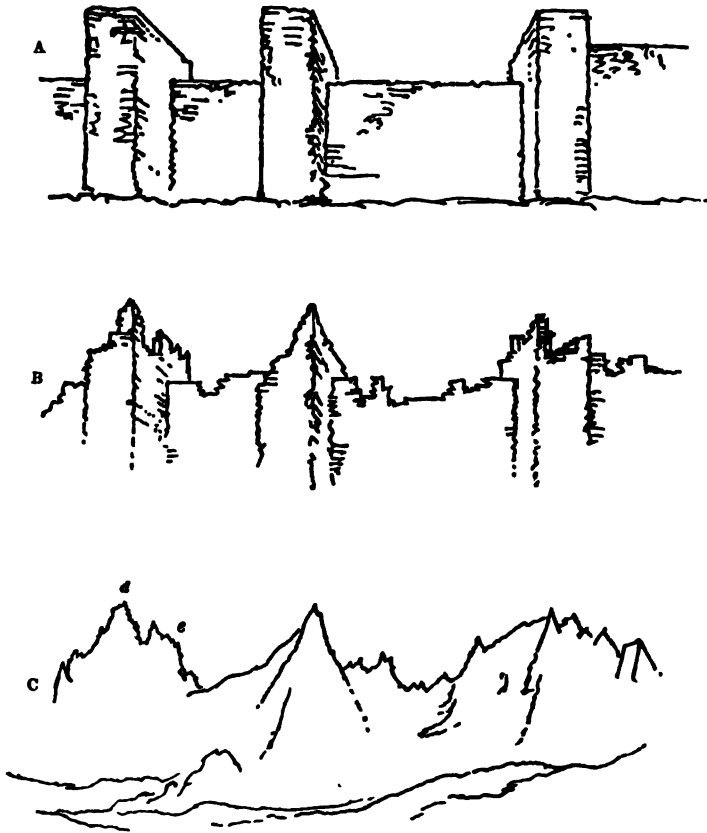


Fig. 35.

easily be brought to assume in their perspective of ruin the forms indicated at B, which, with certain modifications, is the actual shape of the Chamouni aiguilles. The top of the Aiguille Charmoz is not the point under *d*, but that under *e*. The decep-

tion is much increased by the elevation of the whole castle wall on the green bank before spoken of, which raises its foundation several thousand feet above the eye, and thus, giving amazing steepness to all the perspective lines, produces an impression of the utmost possible isolation of peaks, where, in reality, there is a well-supported, and more or less continuous, though sharply jagged, pile of solid walls.

- § 14. There is, however, this great difference between the castle wall and *aiguilles*, that the dilapidation in the one would take place by the fall of *horizontal* bricks or stones; in the *aiguilles* it takes place in quite an opposite manner by the flaking away of nearly *vertical* ones.

This is the next point of great interest respecting them. Observe, the object of their construction appears to be the attainment of the utmost possible peakedness in aspect, with the least possible danger to the inhabitants of the valleys. As, therefore, they are first thrown into transverse ridges, which take, in perspective, a more or less peaked outline, so, in their dilapidation, they split into narrow flakes, which, if seen edgeways, look as sharp as a lance-point, but are nevertheless still strong; being each of them, in reality, not a lance-point or needle, but a hatchet edge.

- § 15. And since if these sharp flakes broke *straight* across the masses of mountain, when once the fissure took place, all hold would be lost between flake and flake, it is ordered (and herein is the most notable thing in the whole matter) that they shall not break straight, but *in curves*, *round the body* of the *aiguilles*, somewhat in the manner of the coats of an onion; so that, even after the fissure has taken place, the detached film or flake clings to and leans upon the central mass, and will not fall from it till centuries of piercing frost have wedged it utterly from its hold; and, even then, will not fall all at once, but drop to pieces slowly, and flake by flake. Consider a little the beneficence of this ordinance<sup>1</sup>; supposing the cliffs had been built like the castle wall,

<sup>1</sup> That is to say, in a cliff intended to *owe its outline to dilapidation*. Where no dilapidation is to be permitted, the bedded structure, well knit, is always used. Of this we shall see various examples in the 16th chapter.





31. The Aiguille Blaitiere.





the mouldering away of a few bricks, more or less, at the bottom would have brought down huge masses above, as it constantly does in ruins, and in the mouldering cliffs of the slaty coherents; while yet the top of the mountain would have been always blunt and rounded, as at *a*, Fig. 36., when seen against the sky. But the aiguille being built in these nearly vertical curved flakes, the worst that the frost can do to it is to push its undermost rocks asunder into forms such as at *b*, of which, when many of the edges have fallen, the lower ones are more or less supported by the very debris accumulated at their feet; and yet all the while the tops sustain themselves in the most fantastic and incredible fineness of peak against the sky.

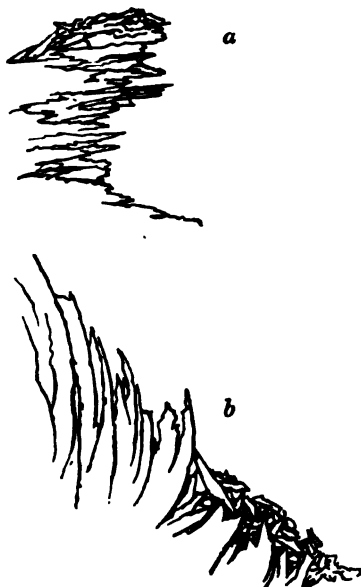


Fig. 36.

§ 16. I have drawn the flakes in Figure 36., for illustration's sake, under a caricatured form. Their real aspect will be understood in a moment by a glance at the opposite plate, 31., which represents the central aiguille in the woodcut outline Fig. 35. (Aiguille Blaitière, called by Forbes Greppond), as seen from within about half a mile of its actual base. The white shell-like mass beneath it is a small glacier, which in its beautifully curved outline<sup>1</sup> appears to sympathize with the sweep of the rocks beneath, rising and breaking like a wave at the feet of the remarkable horn or spur which supports it on the right. The base of the aiguille itself is, as it were, washed by this glacier, or by the snow which covers it, till late in the season, as a cliff is by the

<sup>1</sup> Given already as an example of curvature in the *Stones of Venice*, vol. i. plate 7.

sea; except that a narrow chasm, of some twenty or thirty feet in depth and two or three feet wide, usually separates the rock from the ice, which is melted away by the heat reflected from the southern face of the aiguille. The rock all along this base line is of the most magnificent compactness and hardness, and rings under the hammer like a bell; yet, when regarded from a little distance, it is seen to be distinctly inclined to separate into grand curved flakes or sheets, of which the dark edges are well marked in the plate. The pyramidal form of the aiguille, as seen from this point, is, however, entirely deceptive; the square rock which forms its apparent summit is not the real top, but much in advance of it, and the slope on the right against the sky is a perspective line; while, on the other hand, the precipice in light, above the three small horns at the narrowest part of the glacier, is considerably steeper than it appears to be, the cleavage of the flakes crossing it somewhat obliquely. But I show the aiguille from this spot that the reader may more distinctly note the fellowship between its curved precipice and the little dark horn or spur which bounds the glacier; a spur the more remarkable because there is just such another, jutting in like manner from the corresponding angle of the next aiguille (Charmoz), both of them looking like remnants or foundations of the vaster ancient pyramids, of which the greater part has been by ages carried away.

- § 17. The more I examined the range of the aiguilles the more I was struck by this curved cleavage as their principal character. It is quite true that they have other straighter cleavages (noticed in the Appendix, as the investigation of them would be tiresome to the general reader); but it is this to which they owe the whole picturesqueness of their contours; curved as it is, not simply, but often into the most strange shell-like undulations, as will be understood by a glance at Fig. 37., which shows the mere *governing* lines at the base of this Aiguille Blaitière, seen, with its spur, from a station some quarter of a mile nearer it, and more to the east than that chosen in Plate 31. These leading lines are rarely well shown in fine weather, the important contour from a downwards being hardly relieved clearly from the precipice



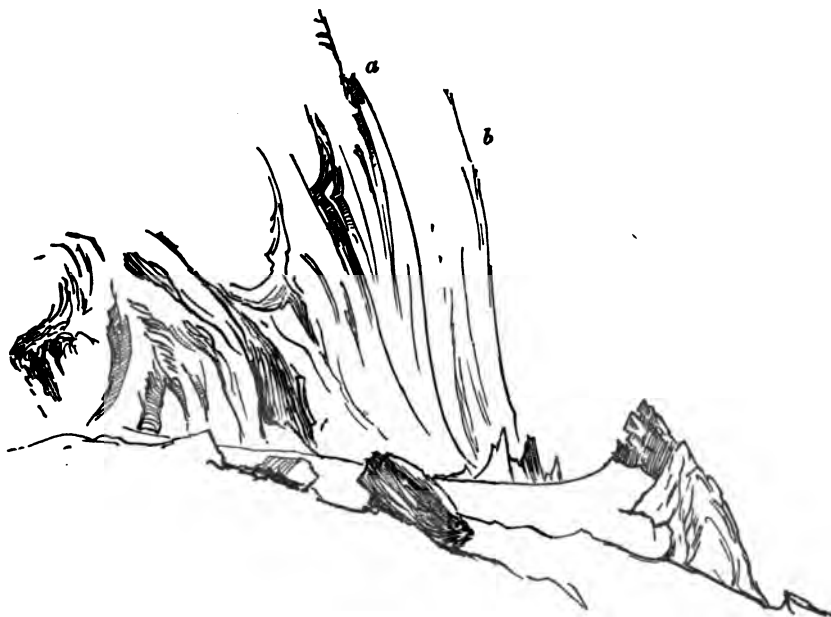


Fig. 37.

beyond (*b*), unless a cloud intervenes, as it did when I made this memorandum; while, again, the leading lines of the Aiguille du Plan, as seen from the foot of it, close to the rocks, are as at Fig. 38., the generally pyramidal outline being nearly similar to



Fig. 38.

that of Blaitière, and a spur being thrown out to the right, under *a*, composed in exactly the same manner of curved folia of rock laid one against the other. The hollow in the heart of the aiguille is as smooth and sweeping in curve as the cavity of a vast bivalve shell.

- § 18. I call these the governing or leading lines, not because they are the first which strike the eye, but because, like those of the grain of the wood in a tree-trunk, they rule the swell and fall and change of all the mass. In Nature, or in a photograph, a careless observer will by no means be struck by them, any more than he would by the curves of the tree; and an ordinary artist would draw rather the craginess and granulation of the surfaces, just as he would rather draw the bark and moss of the trunk. Nor can any one be more steadfastly adverse than I to every substitution of anatomical knowledge for outward and apparent fact; but so it is, that, as an artist increases in acuteness of perception, the facts which *become* outward and apparent to him are those which bear upon the growth or make of the thing. And, just as in looking at any woodcut of trees after Titian or Albert Durer, as compared with a modern water-colour sketch, we shall always be struck by the writhing and rounding of the tree trunks in the one, and the stiffness, and merely blotted or granulated surfaces of the other; so, in looking at these rocks, the keenness of the artist's eye may almost precisely be tested by the degree in which he perceives the curves that give them their strength and grace, and in harmony with which the flakes of granite are bound together, like the bones of the jaw of a saurian. Thus the ten years of study which I have given to these mountains since I described them in the first volume as "traversed sometimes by graceful curvilinear fissures, sometimes by straight fissures," have enabled me to ascertain, and now generally at a glance to see, that the curvilinear ones are *dominant*, and that even the fissures or edges which appear perfectly straight have *almost* always some delicate sympathy with the curves. Occasionally, however, as in the separate beds which form the spur or horn of the Aiguille Blaitière, seen in true profile in Plate 29. Fig. 3.,

the straightness is so accurate that, not having brought a rule with me up the glacier, I was obliged to write under my sketch, "Not possible to draw it straight enough." Compare also the lines sloping to the left in Fig. 38.

- § 19. "But why not give everything just as it is; without caring what is dominant and what subordinate?"

You cannot. Of all the various impossibilities which torment and humiliate the painter, none are more vexatious than that of drawing a mountain form. It is indeed impossible enough to draw, by resolute care, the foam on a wave, or the outline of the foliage of a large tree; but in these cases, when care is at fault, carelessness will help, and the dash of the brush will in some measure give wildness to the churning of the foam, and infinitude to the shaking of the leaves. But chance will not help us with the mountain. Its fine and faintly organized edge seems to be definitely traced against the sky; yet let us set ourselves honestly to follow it, and we find, on the instant, it has disappeared: and that for two reasons. The first, that if the mountain be lofty, and in light, it is so faint in colour that the eye literally cannot trace its separation from the hues next to it. The other day I wanted the contour of a limestone mountain in the Valais, distant about seven miles, and as many thousand feet above me; it was barren limestone; the morning sun fell upon it, so as to make it almost vermilion colour, and the sky behind it a bluish green. Two tints could hardly have been more opposed, but both were so subtle, that I found it impossible to see accurately the line that separated the vermilion from the green. The second, that if the contour be observed from a nearer point, or looked at when it is dark against the sky, it will be found composed of millions of minor angles, crags, points, and fissures, which no human sight or hand can draw finely enough, and yet all of which have effect upon the mind.

- § 20. The outline shown as dark against the sky in Plate 29, Fig. 2, is about a hundred, or a hundred and twenty, yards of the top of the ridge of Charmoz, running from the base of the aiguille down to the Montanvert, and seen from the moraine of the Charmoz

glacier, a quarter of a mile distant to the south-west.<sup>1</sup> It is formed of decomposing granite, thrown down in blocks entirely detached, but wedged together, so as to stand continually in these seemingly perilous contours (being a portion of such a base of aiguille as that in *b*, Figure 36. p. 189.).<sup>2</sup> The block forming the summit on the left is fifteen or eighteen feet long; and the upper edge of it, which is the dominant point of the Charmoz ridge, is the best spot in the Chamouni district for giving a thorough command of the relations of the aiguilles on each side of the Mer de Glace. Now put the book, with that page open, upright, at three yards' distance from you, and try to draw this contour, which I have made as dark and distinct as it ever could be in reality, and you will immediately understand why it is impossible to draw mountain outlines rightly.

- § 21. And if not outlines, *a fortiori* not details of mass, which have all the complexity of the outline multiplied a thousand fold, and drawn in fainter colours. Nothing is more curious than the state of embarrassment into which the unfortunate artist must soon be cast, when he endeavours honestly to draw the face of the simplest mountain cliff—say a thousand feet high, and two or three miles distant. It is full of exquisite details, all seemingly decisive and clear; but when he tries to arrest one of them, he cannot see it,—cannot find where it begins or ends,—

<sup>1</sup> The top of the aiguille of the Little Charmoz bearing, from the point whence this sketch was made, about six degrees east of north.

<sup>2</sup> The *summits* of the aiguilles are often more fantastically rent still. Fig. 39. is the profile of a portion of the upper edge of the Aiguille du Moine, seen from the crest of Charmoz; Fig. 40. shows the three lateral fragments, drawn to a larger scale.



Fig. 39.



Fig. 40.

The height of each of the upright masses must be from twenty to twenty-five feet. I do not know if their rude resemblance to two figures, on opposite sides of a table or altar, has had anything to do with the name of the aiguille.

and presently it runs into another; and then he tries to draw that, but that will not be drawn, neither, until it has conducted him to a third, which, somehow or another, made part of the first; presently he finds that, instead of three, there are in reality four, and then he loses his place altogether. He tries to draw clear lines, to make his work look craggy, but finds that then it is too hard; he tries to draw soft lines, and it is immediately too soft; he draws a curved line, and instantly sees it should have been straight; a straight one, and finds when he looks up again, that it has got curved while he was drawing it. There is nothing for him but despair, or some sort of abstraction and shorthand for cliff. Then the only question is, what is the wisest abstraction; and out of the multitude of lines that cannot altogether be interpreted, which are the really dominant ones; so that if we cannot give the whole, we may at least give what will convey the most important facts about the cliff.

- § 22. Recurring then to our "public opinion" of the Aiguille Charmoz, we find the greatest exaggeration of, and therefore I suppose the greatest interest in, the narrow and spiry point on its left side. That is in reality not a point at all, but a hatchet edge; a flake of rock, which is enabled to maintain itself in this sharp-edged state by its writhing folds of sinewy granite. Its structure, on a larger scale, and seen "edge on," is shown in Fig. 41. The whole aiguille is composed of a series of such flakes, liable, indeed, to all kinds of fissure in other directions, but holding, by their modes of vertical association, the strongest authority over the form of the whole mountain. It is not in all lights that they are seen plainly: for instance, in the morning



Fig. 41.

effect in Plate 30. they are hardly traceable: but the longer we watch, the more they are perceived; and their power of sustaining themselves vertically is so great, that at the foot of the aiguille on the right a few of them form a detached mass, known as the *Petit Charmoz*, between *b* and *c* in Fig. 60. p. 216., of which the height of the outermost flake, between *c* and *d*, is about five hundred feet.

Important, however, as this curved cleavage is, it is so confused among others, that it has taken me, as I said, ten years of almost successive labour to develope, in any degree of completeness, its relations among the aiguilles of Chamouni; and even of professed geologists, the only person who has described it properly is De Saussure, whose *continual* sojourn among the Alps enabled him justly to discern the constant from the inconstant phenomena. And yet, in his very first journey to Savoy, Turner saw it at a glance, and fastened on it as the main thing to be expressed in those mountains.

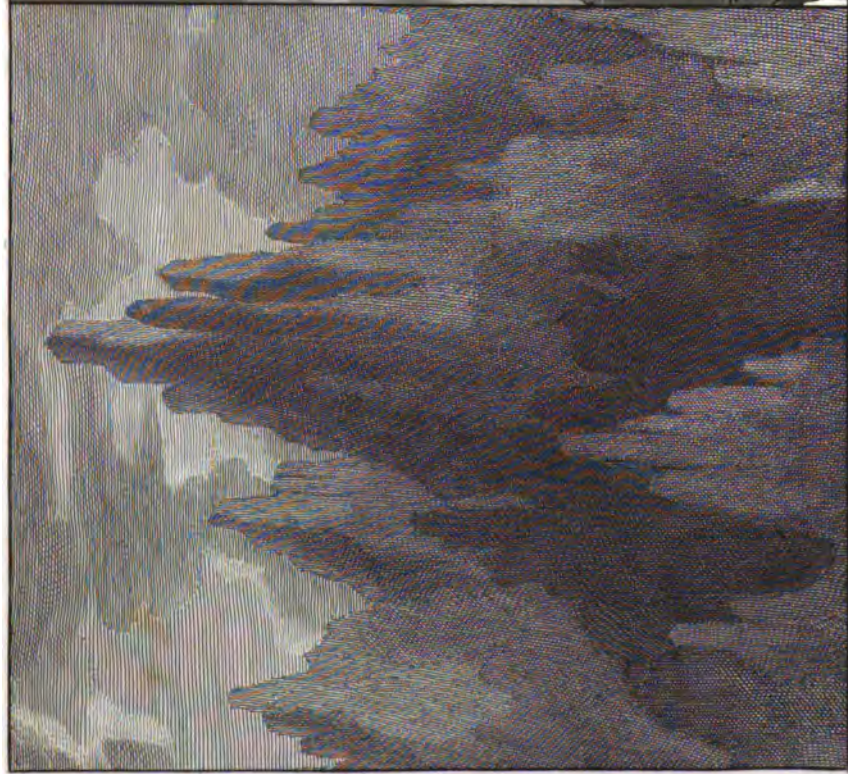
In the opposite Plate (32.), the darkest division, on the right, is a tolerably accurate copy of Turner's rendering of the Aiguille Charmoz (etched and engraved by himself), in the plate called the "Mer de Glace," in the *Liber Studiorum*. Its outline is in local respects inaccurate enough, being modified by Turnerian topography; but the flaky character is so definite, that it looks as if it had been prepared for an illustrative diagram of the points at present under discussion.

- § 23. And do not let it be supposed that this was by chance, or that the modes of mountain drawing at the period would in any wise have helped Turner to discover these lines. The aiguilles had been drawn before his time, and the figure on the left in Plate 32. will show how. It is a facsimile of a piece of an engraving of the Mer de Glace, by Woollett, after William Pars, published in 1783, and founded on the general Wilsonian and Claudesque principles of landscape common at the time. There are, in the rest of the plate, some good arrangements of shadow and true aerial perspective; and the piece I have copied, which is an attempt to represent the Aiguille Dru, opposite the Charmoz, will serve, not

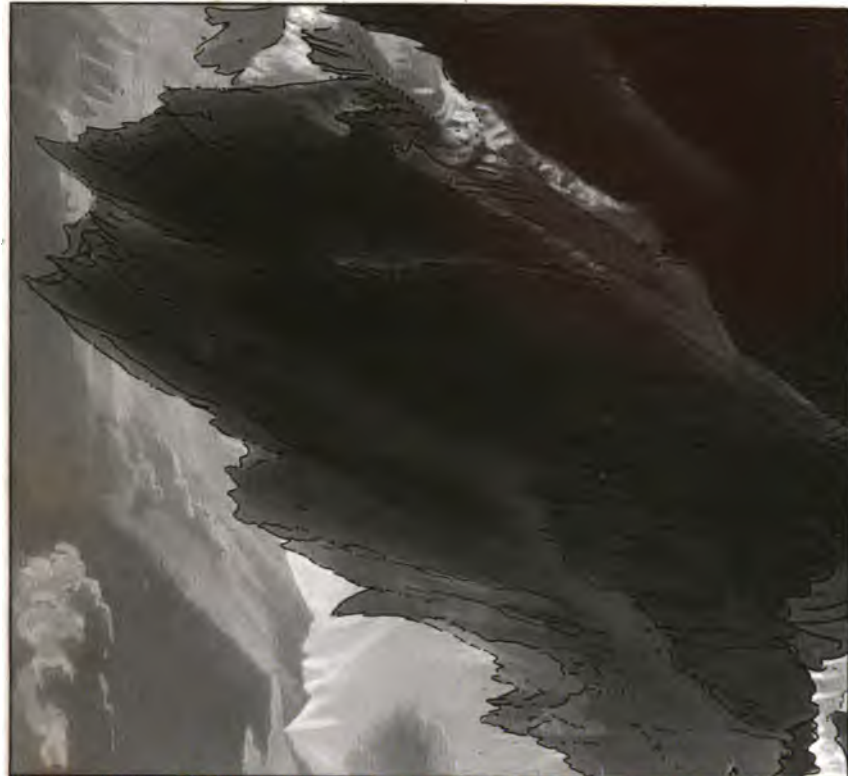








J.M.W. Turner



J.H. Le Keux

### 32. Aiguille Drawing.

1. Old Ideal.

2. Turnerian



unfairly, to show how totally inadequate the draughtsmen of the time were to perceive the character of mountains; and, also, how unable the human mind is by itself to conceive anything like the variety of natural form. The workman had not looked at the thing,—trusted to his “Ideal,” supposed that broken and rugged rocks might be shaped better out of his own head than by Nature’s laws,—and we see what comes of it.

- § 24. And now, lastly, observe, in the laws by which this strange curvilinear structure is given to the aiguilles, how the provision for beauty of form is made in the first landscape materials we have to study. We have permitted ourselves, according to that unsystematic mode of proceeding pleaded for in the opening of our present task, to wander hither and thither as this or that question rose before us, and demanded, or tempted, our pursuit. But the reader must yet remember that our special business in this section of the work is the observance of the nature of *beauty*, and of the degrees in which the aspect of any object fulfils the laws of beauty stated in the second volume. Now in the fifteenth paragraph of the chapter on infinity, it was stated that curvature was essential to all beauty, and that what we should “need more, especially to prove, was the constancy of curvature in all natural forms whatsoever.” And these aiguilles, which are the first objects we have had definitely to consider, appeared as little likely to fulfil the condition as anything we could have come upon. I am well assured that the majority of spectators see no curves in them at all, but an intensely upright, stern, spiry ruggedness and angularity. And we might even beforehand have been led to expect, and to be contented in expecting, nothing else from them than this; for since, as we have said often, they are part of the earth’s skeleton, being created to sustain and strengthen everything else, and yet differ from a skeleton in this, that the earth is not only supported by their strength, but fed by their ruin; so that they are first composed of the hardest and least tractable substance, and then exposed to such storm and violence as shall beat large parts of them to powder;—under these desperate conditions of being, I say, we might have

anticipated some correspondent ruggedness and terribleness of aspect, some such refusal to comply with ordinary laws of beauty, as we often see in other things and creatures put to hard work, and sustaining distress or violence.

- § 25. And truly, at first sight, there is such refusal in their look, and their shattered walls and crests seem to rise in a gloomy contrast with the soft waves of bank and wood beneath; nor do I mean to press the mere fact, that, as we look longer at them, other lines become perceptible, because it might be thought no proof of their beauty that they needed long attention in order to be discerned. But I think this much at least is deserving of our notice, as confirmatory of foregone conclusions, that the forms which in other things are produced by slow increase, or gradual abrasion of surface, *are here produced by rough fracture*, when rough fracture is to be the law of existence. A rose is rounded by its own soft ways of growth, a reed is bowed into tender curvature by the pressure of the breeze; but we could not, from these, have proved any resolved preference, by Nature, of curved lines to others, inasmuch as it might always have been answered that the curves were produced, not for beauty's sake, but infallibly, by the laws of vegetable existence; and, looking at broken flints or rugged banks afterwards, we might have thought that we only liked the curved lines because associated with life and organism, and disliked the angular ones, because associated with inaction and disorder. But Nature gives us in these mountains a more clear demonstration of her will. She is here driven to make fracture the law of being. She cannot tuft the rock-edges with moss, or round them by water, or hide them with leaves and roots. She is bound to produce a form, admirable to human beings, by continual breaking away of substance. And behold—so soon as she is compelled to do this—she changes the law of fracture itself. “Growth,” she seems to say, “is not essential to my work, nor concealment, nor softness; but curvature is: and if I must produce my forms by breaking them, the fracture itself shall be in curves. If, instead of dew and sunshine, the only instruments I am to use are the lightning and the frost, then their forked tongues and

crystal wedges shall still work out my laws of tender line. Devastation instead of nurture may be the task of all my elements, and age after age may only prolong the unrenovated ruin; but the appointments of typical beauty which have been made over all creatures shall not therefore be abandoned; and the rocks shall be ruled, in their perpetual perishing, by the same ordinances that direct the bending of the reed and the blush of the rose."

## CHAPTER XV.

## RESULTING FORMS: — SECONDLY, CRESTS.

- § 1. BETWEEN the aiguilles, or other conditions of central peak, and the hills which are clearly formed, as explained in Chap. XII. § 11., by the mere breaking of the edges of solid beds of coherent rock, there occurs almost always a condition of mountain summit, intermediate in aspect, as in position. The aiguille may generally be represented by the type *a*, Fig. 42.; the solid and simple beds



Fig. 42.

of rock by the type *c*. The condition *b*, clearly intermediate between the two, is, on the whole, the most graceful and perfect in which mountain masses occur. It seems to have attracted more of the attention of the poets than either of the others; and the ordinary word, crest, which we carelessly use in speaking of mountain summits, as if it meant little more than “edge” or “ridge,” has a peculiar force and propriety when applied to ranges of cliff whose contours correspond thus closely to the principal lines of the crest of a Greek helmet.

- § 2. There is another resemblance which they can hardly fail to suggest when at all irregular in form,—that of a wave about to break. Byron uses the image definitely of Soracte; and, in a less clear way, it seems to present itself occasionally to all minds, there being a general tendency to give or accept accounts of mountain form under the image of waves; and to speak of a hilly country, seen from above, as looking like a “sea of mountains.”

Such expressions, vaguely used, do not, I think, generally imply much more than that the ground is waved or undulated into bold masses. But if we give prolonged attention to the mountains of the group *b* we shall gradually begin to feel that more profound truth is couched under this mode of speaking, and that there is indeed an appearance of action and united movement in these crested masses, nearly resembling that of sea waves; that they seem not to be heaped up, but to leap or toss themselves up; and in doing so, to wreath and twist their summits into the most fantastic, yet harmonious, curves, governed by some grand under-sweep like that of a tide, running through the whole body of the mountain chain.

For instance, in Fig. 43., which gives, rudely, the leading lines of the junction of the "Aiguille pourri"<sup>1</sup> (Chamouni) with the Aiguilles Rouges, the reader cannot, I think, but feel that there



Fig. 43.

is something which binds the mountains together — some common influence at their heart which they cannot resist: and that, however they may be broken or disordered, there is as true unity among

<sup>1</sup> So called from the mouldering nature of its rocks. They are slaty crystallines, but unusually fragile.

them as in the sweep of a wild wave, governed, through all its foaming ridges, by constant laws of weight and motion.

- § 3. How far this apparent unity is the result of elevatory force in mountain, and how far of the sculptural force of water upon the mountain, is the question we have mainly to deal with in the present chapter.

But first look back to Fig. 7. of Plate 8. Vol. III., there given as the typical representation of the ruling forces of growth in a leaf. Take away the extreme portion of the curve on the left, and any segment of the leaf remaining, terminated by one of its ribs, as *a* or *b*, Fig. 44., will be equally a typical contour

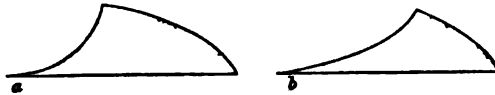


Fig. 44.

of a common crested mountain. If the reader will merely turn Plate 8. so as to look at the figure upright, with its stalk downwards, he will see that it is also the base of the honeysuckle ornament of the Greeks. I may anticipate what we shall have to note with respect to vegetation so far as to tell him that it is also the base of form in all timber trees.

- § 4. There seems something, therefore, in this contour which makes its production one of the principal aims of Nature in all her compositions. The cause of this appears to be, that as the cinq-foil is the simplest expression of proportion, this is the simplest expression of opposition, in unequal curved lines. If we take any lines, *ax* and *cg*, Fig. 45., both of varied curvature (not segments of circles), and one shorter than the other, and join them together so as to form one line, as *bx*, *xg*, we shall have one of the common lines of beauty; if we join them at an angle, as *cx*, *xy*, we shall have the common crest, which is in fact merely a jointed

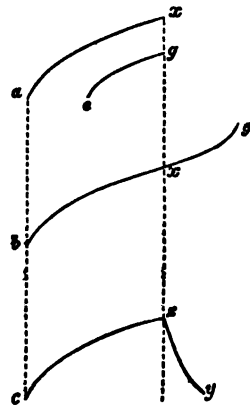


Fig. 45.



line of beauty. If we join them as at *a*, Fig. 46., they form a line at once monotonous and cramped, and the jointed condition of this same line, *b*, is hardly less so. It is easily proved, therefore, that the junction of lines *c x*, *x y* is the simplest and most graceful mode of opposition; and easily observed that in branches of trees, wings of birds, and other more or less regular

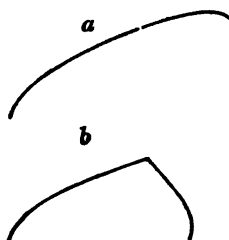


Fig. 46.

organizations, such groups of line are continually made to govern the contours. But it is not so easily seen why or how this form should be impressed upon irregular heaps of mountain.

- § 5. If a bed of coherent rock be raised, in the manner described in Chap. XIII., so as to form a broken precipice with its edge, and a long slope with its surface, as at *a*, Fig. 47. (and in this way nearly all hills are raised), the top of the precipice has usually a tendency to crumble down, and, in process of time, to form a heap of advanced ruins at its foot. On the other side, the back or slope of the hill does not crumble down, but is gradually worn away by the streams; and as these are always more considerable, both in velocity and weight, at the bottom of the slope than the top, the ground is faster worn away at the bottom, and the straight slope is cut to a curve of continually increasing steepness. Fig. 47. *b* represents the contour to which the hill *a* would thus be brought in process of time; the dotted line indicating its original form. The result, it will be seen, is a crest.<sup>1</sup>

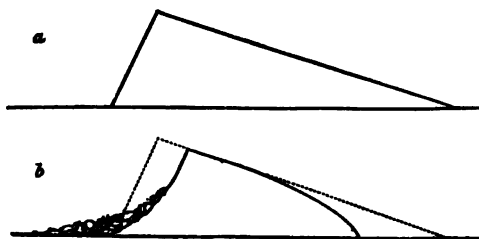


Fig. 47.

<sup>1</sup> The materials removed from the slope are spread over the plain or valley below. A nearly equal quantity is supposed to be removed from the other side; but besides this removed mass, the materials crumble heavily from above, and form the concave curve.

§ 6. But crests of this uniform substance and continuous outline occur only among hills composed of the softest coherent rocks, and seldom attain any elevation such as to make them important or impressive. The notable crests are composed of the hard coherents or slaty crystallines, and then the contour of the crest depends mainly on the question whether, in the original mass of it, the beds lie as at *a* or as at *b*, Fig. 48.

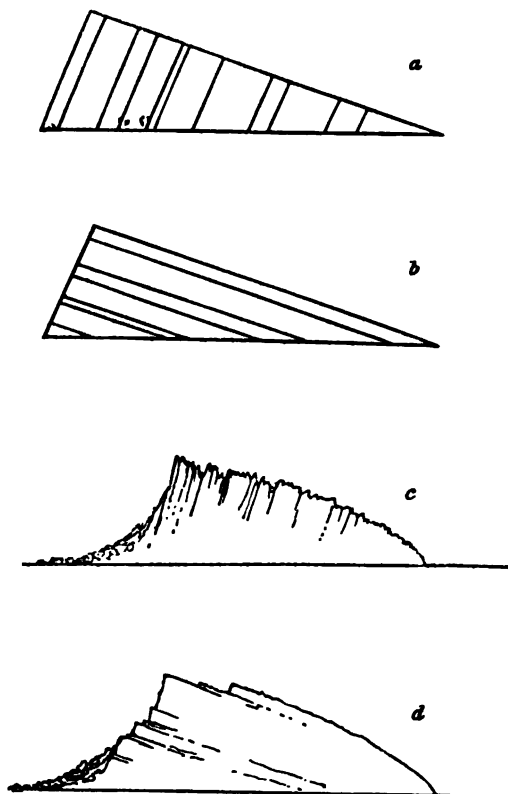


Fig. 48.

If they lie as at *a*, then the resultant crest will have the general appearance seen at *c*; the edges of the beds getting separated and serrated by the weather. If the beds lie as at *b*, the resultant crest will be of such a contour as that at *d*.

The crests of the contour *d* are formed usually by the harder coherent rocks, and are notable chiefly for their bold precipices in front, and regular slopes, or sweeping curves, at the back. We shall examine them under the special head of *precipices*. But the crests of the form at *c* belong usually to the slaty crystallines, and are those properly called crests, their edges looking, especially when covered with pines, like separated plumes. These it is our chief business to examine in the present chapter.

§ 7. In order to obtain this kind of crest, we first require to have our mountain beds thrown up in the form *a*, Fig. 48. This is not easily done on a large scale, except among the slaty crystallines forming the flanks of the great chains, as in Fig. 29. p. 180. In that figure it will be seen that the beds forming each side of the chain of Mont Blanc are thrown into the required steepness, and therefore, whenever they are broken towards the central mountain, they naturally form the front of a crest, while the torrents and glaciers falling over their longer slopes, carve them into rounded banks towards the valley.

§ 8. But the beauty of a crest or bird's wing consists, in nature, not merely in its curved terminal outline, but in the radiation of the plumes, so that while each assumes a different curve, every curve shall show a certain harmony of direction with all the others.

We shall have to enter into the examination of this subject at greater length in the 17th chapter; meanwhile, it is sufficient to observe the law in a single example, such as Fig. 49. over leaf, which is a wing of one of the angels in Durer's woodcut of the Fall of Lucifer.<sup>1</sup> At first sight, the plumes seem disposed with much irregularity, but there is a sense of power and motion in the whole which the reader would find was at once

<sup>1</sup> The lines are a little too straight in their continuations, the engraver having cut some of the curvature out of their thickness, thinking I had drawn them too coarsely. But I have chosen this coarsely lined example, and others like it, following, because I wish to accustom the reader to distinguish between the mere fineness of instrument in the artist's hand, and the precision of the line he draws. Give Titian a blunt pen, and still Titian's line will be a noble one: a tyro, with a pen well mended, may draw more neatly; but his lines ought to be discerned from Titian's, if we understand drawing. Every line in this woodcut of Durer's is *refined*; and that in the noblest sense. Whether broad or fine does not matter, the lines are *right*; and the most delicate false line is evermore to be despised, in presence of the coarsest faithful one.



Fig. 49.

lost by a careless copyist; for it depends on the fact that if we take the principal curves at any points of the wing, and continue them in the lines which they are pursuing at the moment they terminate, these continued lines will all meet in a single point, *c*. It is this law which gives unity to the wing.

All groups of curves set beside each other depend for their beauty upon the observance of this law<sup>1</sup>; and if, therefore, the mountain crests are to be perfectly beautiful, Nature must contrive to get this element of radiant curvature into them in one way or

<sup>1</sup> Not absolutely on the meeting of the curves in one point, but on their radiating with some harmonious succession of difference in direction. The difference between lines which are in true harmony of radiation, and lines which are not, can, in complicated masses, only be detected by a trained eye; yet it is often the chief difference between good and bad drawing. A cluster of six or seven black plumes forming the wing of one of the cherubs in Titian's *Assumption*, at Venice, has a freedom and force about it in the painting which no copyist or engraver has ever yet rendered, though it depends merely on the subtlety of the curves, not on the colour.

another. Nor does it, at first sight, appear easy for her to get, I do not say radiant curves, but curves *at all*: for, in the *aiguilles*, she actually bent their beds; but in these slaty crystallines it seems not always convenient to her to bend the beds; and when they are to remain straight, she must obtain the curvature in some other way.

- § 9. One way in which she gets it is curiously simple in itself, but somewhat difficult to explain, unless the reader will be at the pains of making a little model for himself out of paste or clay. Hitherto, observe, we have spoken of these crests as seen at their sides, as a Greek helmet is seen from the side of the wearer. By means presently to be examined, these mountain crests are so shaped that, seen *in front*, or from behind (as a helmet crest is seen in front of or behind the wearer), they present the contour of a sharp ridge, or house gable. Now if the breadth of this ridge at its base remains the same, while its height gradually diminishes from the front of it to the back (as from the top of the crest to the back of the helmet), it necessarily assumes the form of such a quaint gable roof as that shown in profile in Fig. 50., and in perspective<sup>1</sup> in Fig. 51., in which the gable is steep at the end farthest off, but depressed at the end nearest us; and the rows of tiles in consequence, though in reality quite straight, appear to radiate as they retire, owing to their different slopes. When a mountain crest is thus formed, and the concave curve of its front is carried into its flanks, each edge of bed assuming this concave curve, and radiating, like the rows of tiles, in perspective at the same time, the whole crest is thrown into the form Fig. 52., which is that of the radiating plume required.



Fig. 50.



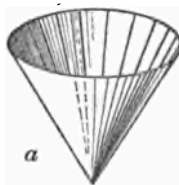
Fig. 51.



Fig. 52.

<sup>1</sup> "Out of perspective," I should have said; but it will show what I mean.

§ 10. It often happens, however, that Nature does not choose to keep the ridge broad at the lower extremity, so as to diminish its steepness. But when this is not so, and the base is narrowed so that the slope of side shall be nearly equal everywhere, she almost always obtains her varied curvature of the plume in another way, by merely turning the crest a little round as it descends. I will not confuse the reader by examining the complicated results of such turning on the inclined lines of the strata; but he can understand, in a moment, its effect on another series of lines, those caused by rivulets of water down the sides of the crest. These lines are, of course, always, in general tendency, perpendicular. Let *a*, Fig. 53., be a circular funnel, painted inside with a pattern of vertical lines meeting at the bottom. Suppose these lines to represent the ravines traced by the water. Cut off a portion of the lip of the funnel, as at *b*, to represent the crest side. Cut the edge so as to slope down towards you, and add a slope on the other side. Then give each inner line the concave sweep, and you have your ridge *c*, of the required form, with radiant curvature.



§ 11. A greater space of such a crest is always seen on its concave than on its convex side (the outside of the funnel); of this other perspective I shall have to speak hereafter; meantime, we had better continue the examination of the proper crest, the *c* of Fig. 48., in some special instance.

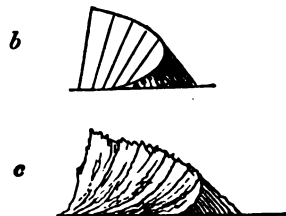


Fig. 53.

The form is obtained usually in the greatest perfection among the high ridges near the central chain, where the beds of the slaty crystallines are steep and hard. Perhaps the most interesting example I can choose for close examination will be that of a mountain in Chamouni, called the Aiguille Bouchard, now familiar to the eye of every traveller, being the ridge which rises, exactly opposite the Montanvert, beyond the Mer de Glace.





33. Leading Contours of Aiguille Bouchard.







The structure of this crest is best seen from near the foot of the Montanvert, on the road to the source of the Arveron, whence the top of it, *a*, presents itself under the outline given rudely in the opposite plate (33.), in which it will be seen that, while the main energy of the mountain mass tosses itself against the central chain of Mont Blanc (which is on the right hand), it is met by a group of counter-crests, like the recoil of a broken wave cast against it from the other side; and yet, as the recoiling water has a sympathy with the under swell of the very wave against which it clashes, the whole mass writhes together in strange unity of mountain passion; so that it is almost impossible to persuade oneself, after long looking at it, that the crests have not indeed been once fused and tossed into the air by a tempest which had mastery over them, as the winds have over ocean.

§ 12. And yet, if we examine the crest structure closely, we shall find that nearly all these curvatures are obtained by Nature's skilful handling of perfectly straight beds,—only the meeting of those two waves of crest is indeed indicative of the meeting of two masses of different rocks; it marks that junction of the slaty with the compact crystallines, which has before been noticed as the principal mystery of rock structure. To this junction my attention was chiefly directed during my stay at Chamouni, as I found it was always at that point that Nature produced the loveliest mountain forms. Perhaps the time I gave to the study of it may have exaggerated its interest in my eyes; and the reader who does not care for these geological questions, except in their direct bearing upon art, may, without much harm, miss the next seven paragraphs, and go on at the twenty-first. Yet there is one point, in a Turner drawing presently to be examined, which I cannot explain without inflicting the tediousness even of these seven upon him.

§ 13. First, then, the right of the Aiguille Bouchard to be called a crest at all depends, not on the slope from *a* to *b*, Plate 33., but on that from *a* to *h*. The slope from *a* to *b* is a perspective deception; *b* is much the highest point of the two. Seen from the village of Chamouni, the range presents itself under the outline Fig. 54., the same points in each figure being indicated

by the same letters. From the end of the valley the supremacy of the mass *b c* is still more notable. It is altogether with mountains as with human spirits, you never know which is greatest till they are far away.

- § 14. It will be observed also, that the beauty of the crest, in both Plate 33. and Fig. 54., depends on the gradually increasing steepness of the lines of slope between *a* and *b*. This is in great part deceptive, being obtained by the receding of the crest into a great mountain crater, or basin, as explained in § 11.

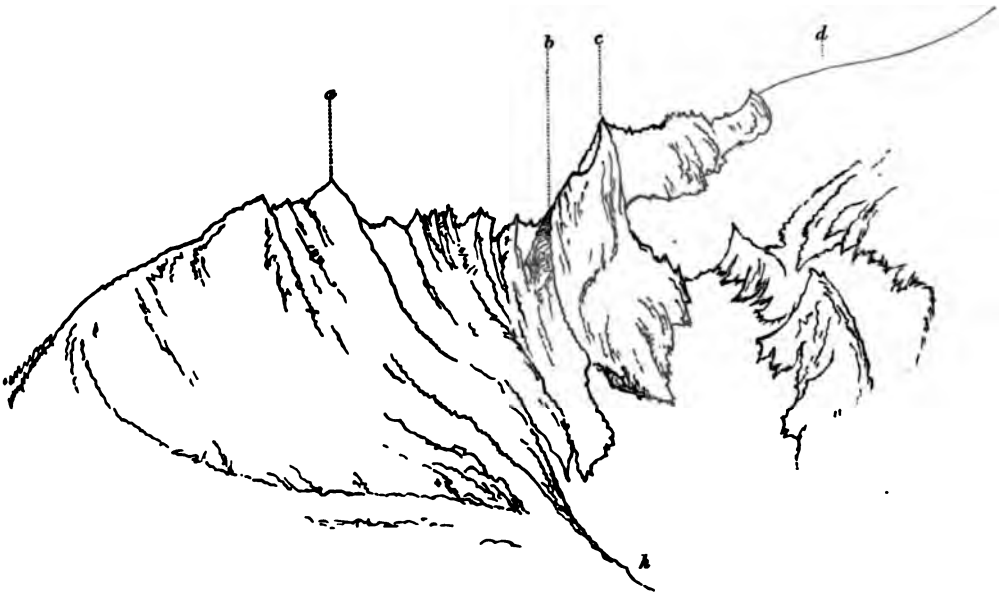


Fig. 54.

But this very recession is a matter of interest, for it takes place exactly on the line above spoken of, where the slaty crystallines of the crest join the compact crystallines of the aiguilles; at which junction a correspondent chasm or recession, of some kind or another, takes place along the whole front of Mont Blanc.

- § 15. In the third paragraph of the last chapter we had occasion to refer to the junction of the slaty and compact crystallines at the roots of the aiguilles. It will be seen in the figure there given, that this change is not sudden, but gradated. The

rocks to be joined are of the two types represented in Fig. 3. p. 108. (for convenience' sake I shall in the rest of this chapter call the slaty rock gneiss, and the compact rock protogine, its usual French name). Fig. 55. shows the general

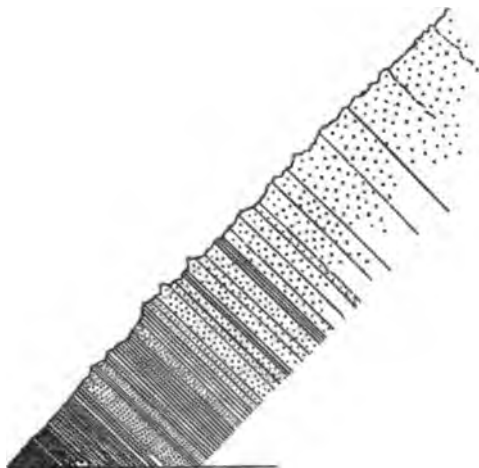


Fig. 55.

manner of junction, beds of gneiss occurring in the middle of the protogine, and of protogine in the gneiss; sometimes one touching the other so closely, that a hammer-stroke breaks off a piece of both; sometimes one passing into the other by a gradual change, like the zones of a rainbow; the only general phenomenon being this, that the higher up the hill the gneiss is, the harder it is (so that while it often yields to the pressure of the finger down in the valley, on the Montanvert it is nearly as hard as protogine); and, on the other hand, the lower down the hill, or the nearer the gneiss, the protogine is, the finer it is in grain. But still the actual transition from one to the other is usually within a few fathoms; and it is that transition, and the preparation for it, which causes the great step, or jag, on the flank of the chain, and forms the tops of the Aiguille Bouchard, Charmoz ridges, Tapia, Montagne de la Côte, Montagne de Taçonay, and Aiguille du Gouté.

§ 16. But what most puzzled me was the intense *straightness* of the lines

of the gneiss beds, dipping, as it seemed, under the Mont Blanc. For it has been a chief theory with geologists that these central protogine rocks have once been in fusion, and have risen up in molten fury, overturning and altering all the rocks around. But everyday, as I looked at the crested flanks of the Mont Blanc, I saw more plainly the exquisite *regularity* of the slopes of the beds, ruled, it seemed, with an architect's rule, along the edge of their every flake from the summits to the valley. And this surprised me the more because I had always heard it stated that the beds of the lateral crests, *a* and *b*, Fig. 56., varied in slope, getting less and less inclined as they descended, so as to arrange themselves somewhat in the form of a fan. It may be so; but I can only say that all my observations and drawings give an opposite report, and that the beds seemed invariably to present themselves to the eye and the pencil in parallelism, modified only by the phenomena just explained (§§ 9, 10.). Thus the entire mass of the Aiguille Boucharde, of which only the top is represented in Plate 33., appeared to me in profile, as in Fig. 57., dependent for all its effect and character on the descent of the beds in the directions of the dotted



Fig. 56.

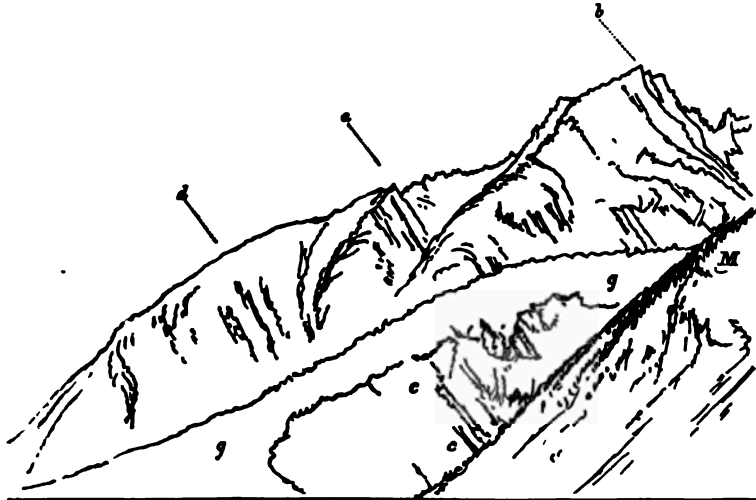


Fig. 57.

lines, *a, b, d*. The interrupting space, *g g*, is the Glacier des Bois; *m* is the Montanvert; *c, c*, the rocks under the glacier, much worn by the fall of avalanches, but, for all that, showing the steep lines still with the greatest distinctness. Again, looking down the valley instead of up, so as to put the Mont Blanc on the left hand, the principal crests which support it, Taconay and La Côte, always appeared to me constructed as in Plate 35. (p. 217.), they also depending for all their effect on the descent of the beds in diagonal lines towards the left. Nay, half-way up the Breven, whence the structure of the Mont Blanc is commanded, as far as these lower buttresses are concerned, better than from the top of the Breven, I drew carefully the cleavages of the beds, as high as the edge of the Aiguille de Gouté, and found them exquisitely parallel throughout; and again on the Cornayeur side, though less steep, the beds *a, b*, Fig. 58., traversing the vertical irregular fissures of the great aiguille of the Allée Blanche, as seen over the Lac de Combal, still appeared to me perfectly regular and parallel.<sup>1</sup> I have not had time to trace them round,

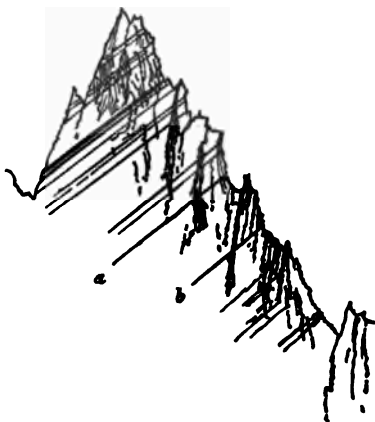


Fig. 58.

<sup>1</sup> Nor did any nearer observations ever induce me to form any contrary opinion. It is not easy to get any consistent series of *measurements* of the slope of these gneiss beds; for, although parallel on the great scale, they admit many varieties of dip in minor projections. But all my notes unite, whether at the bottom or top of the great slope of the Montanvert and La Côte, in giving an angle of from 60° to 80° with the horizon; the consistent angle being about 75°. I cannot be mistaken in the measurements themselves, however inconclusive observations on minor portions of rock may be; for I never mark an angle unless enough of the upper or lower surface of the beds be smoothly exposed to admit of my pole being adjusted to it by the spirit-level. The pole then indicates the strike of the beds, and a quadrant with a plumb-line their dip; to all intents and purposes accurately. There is a curious distortion of the beds in the ravine between the Glacier des Bois and foot of the Montanvert, near the ice, about a thousand feet above the valley; the beds there seem to bend suddenly back under the glacier, and in some places to be quite vertical. On the opposite side of the glacier, below the Chapeau, the dip of the limestone under

through the Aiguille de Bionassay, and above the Col de Bonhomme, though I know the relations of the beds of limestone to the gneiss on the latter col are most notable and interesting. But, as far as was required for any artistical purposes, I perfectly ascertained the fact that, whatever their real structure might be, these beds did appear, through the softer contours of the hill, as straight and parallel; that they continued to appear so until near the tops of the crests; and that those tops seemed, in some mysterious way, dependent on the junction of the gneissitic beds with, or their transition into, the harder protogine of the aiguilles.

the gneiss, with the intermediate bed, seven or eight feet thick, of the grey porous rock which the French call *cargneule*, is highly interesting; but it is so concealed by debris and the soil of the pine forests, as to be difficult to examine to any extent. On the whole, the best position for getting the angle of the beds accurately, is the top of the Tapia, a little below the junction there of the granite and gneiss (see notice of this junction in Appendix 2.); a point from which the summit of the Aiguille du Gouté bears  $11^{\circ}$  south of west, and that of the Aiguille Bouchard  $17^{\circ}$  north of east, the Aiguille Dru  $5\frac{1}{2}^{\circ}$  or  $6^{\circ}$  north of east, the peak of it appearing behind the Petit Charmoz. The beds of gneiss emerging from the turf under the spectator's feet may be brought parallel by the eye with the slopes of the Aiguille du Gouté on one side, and the Bouchard (and base of Aiguille d'Argentière) on the other; striking as nearly as possible from summit to summit through that on which the spectator stands, or from about  $10^{\circ}$  north of east to  $10^{\circ}$  south of west, and dipping with exquisite uniformity at an angle of 74 degrees with the horizon. But what struck me as still more strange was, that from this point I could distinctly see traces of the same straight structure running through the Petit Charmoz, and the roots of the aiguilles themselves, as in Fig. 59.; nor could I ever, in the course of countless observations, fairly determine

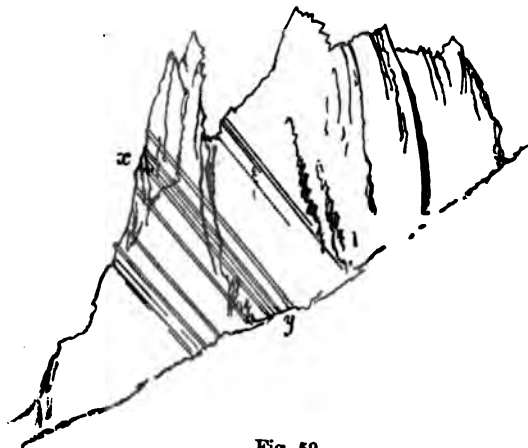


Fig. 59.



Look back to Plate 33. The peak of the Bouchard, *a*, is of gneiss, and its beds run down in lines originally straight, but more or less hollowed by weathering, to the point *b*, where they plunge under debris. But the point *b* is, I believe, of protogine; and all the opposed writhing of the waves of rock to the right appears to be in consequence of the junction.

- § 17. The way in which these curves are produced cannot, however, be guessed at until we examine the junction more closely. Ascending about five hundred feet above the cabin of the Montanvert, the opposite crest of the Bouchard, from *a* to *c*, Plate 33., is seen more in front, expanded into the jagged line, *a* to

any point where this slaty structure altogether had ceased. It seemed only to get less and less traceable towards the centre of the mass of Mont Blanc; and, from the ridge of the Aiguille Bouchard itself, at the point *a* in Plate 33., whence, looking south-west, the aiguilles can be seen in the most accurate profile obtainable throughout the valley of Chamouni, I noticed a very singular parallelism even on the south-east side of the Charmoz, *xy* (Fig. 60.), as if the continued influence of this cleavage were



Fig. 60.

carried on from the Little Charmoz *c, d* (in which, seen on the opposite side, I had traced it as in Fig. 59.), through the central mass of rock *r*. In this profile, *m* is the Mont Blanc itself; *m*, the Aiguille du Midi; *P*, Aiguille du Plan; *b*, Aiguille Blaitière; *c*, Great Charmoz; *c*, Petit Charmoz; *x*, passage called de l'Étala.

*c*, Plate 34., and the beds, with their fractures, are now seen clearly throughout the mass, namely :

1st. (See references on plate.) The true gneiss beds dipping down in the direction *GH*, the point *H* being the same as *h* in Plate 33. These are the beds so notable for their accurate straightness and parallelism.

2nd. The smooth fractures which in the middle of the etching seem to divide the column of rock into a kind of brickwork. They are very neat and sharp, running nearly at right angles with the true beds.<sup>1</sup>

3rd. The curved fractures of the *aiguilles* (seen first under the letter *b*, and seeming to push outwards against the gneiss beds<sup>2</sup>) continuing through *c* and the spur below.

4th. An irregular cleavage, something like that of starch, showing itself in broken vertical lines.

5th. Writhing lines, cut by water. These have the greatest possible influence on the aspect of the precipice: they are not merely caused by torrents, but by falls of winter snow, and stones from the glacier moraines, so that the cliff being continually worn away at the foot of it, is wrought into a great amphitheatre, of which the receding sweep continually varies the apparent steepness of the crest, as already explained. I believe in ancient times the great Glacier des Bois itself used to fill this amphitheatre, and break right up against the base of the Bouchard.

6th. Curvatures worn by water over the back of the crest towards the valley, in the direction *gi*.

7th. A tendency (which I do not understand) to form horizontal masses at the levels *k* and *l*.<sup>3</sup>

§ 18. The reader may imagine what strange harmonies and changes of line must result throughout the mass of the mountain, from

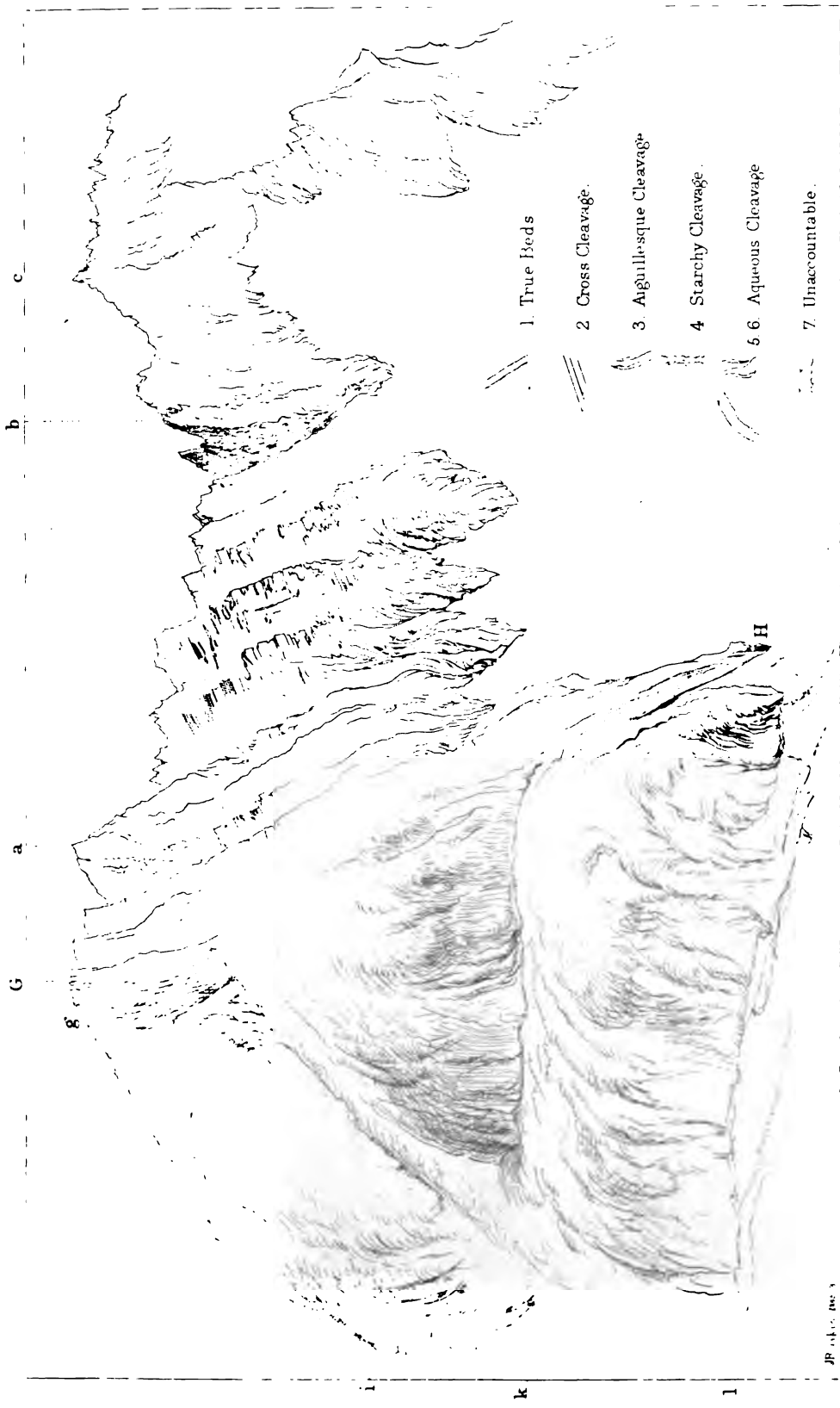
<sup>1</sup> Many geologists think they are the true beds. They run across the gneissitic folia, and I hold with De Saussure, and consider them a cleavage.

<sup>2</sup> I tried in vain to get along the ridge of the Bouchard to this junction, the edge of the precipice between *a* and *b* (Plate 33.) being too broken; but the point corresponds so closely to that of the junction of the gneiss and protogine on the Charmoz ridge, that, adding the evidence of the distant contour, I have no doubt as to the general relations of the rocks.

<sup>3</sup> De Saussure often refers to these as "assaissements." They occur, here and there, in the *aiguilles* themselves.







34. Cleavages of Aiguille Bouchard.













the varied prevalence of one or other of these secret inclinations of its rocks (modified, also, as they are by perpetual deceptions of perspective), and how completely the rigidity or parallelism of any one of them is conquered by the fitful urgencies of the rest,—a sevenfold action seeming to run through every atom of crag. For the sake of clearness, I have shown in this plate merely leading lines; the next (Plate 35. opposite) will give some idea of the complete aspect of two of the principal crests on the Mont Blanc flanks, known as the Montagne de la Côte, and Montagne de Taconay, *c* and *t* in Fig. 22. at page 166. In which note, first, that the eminences marked *a a*, *b b*, *c c*, here, in the reference figure (61.), are in each of the mountains corre-

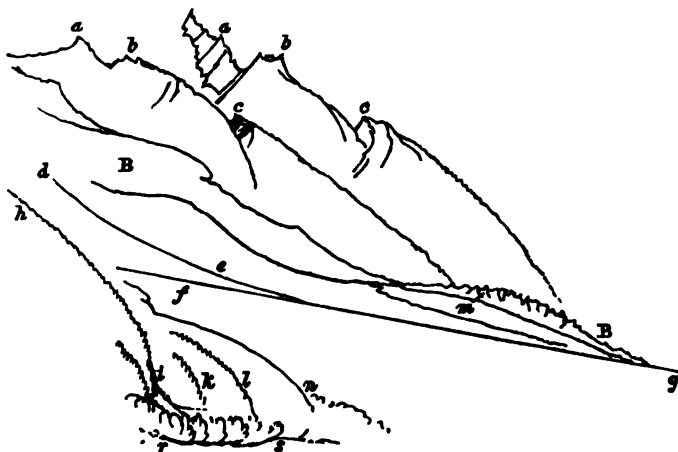


Fig. 61.

spondent, and indicate certain changes in the conditions of their beds at those points. I have no doubt the two mountains were once one mass, and that they have been sawn asunder by the great glacier of Taconay, which descends between them; and similarly the Montagne de la Côte sawn from the Tapia by the glacier des Bossons, *B B* in reference figure.

- § 19. Note, secondly, the general tendency in each mountain to throw itself into concave curves towards the Mont Blanc, and descend in rounded slopes to the valley; more or less interrupted by the direct manifestation of the straight beds, which are indeed, in this

view of Taconay, the principal features of it. They necessarily become, however, more prominent in the outline etching than in the scene itself, because in reality the delicate cleavages are lost in distance or in mist, and the effects of light bring out the rounded forms of the larger masses; and wherever the clouds fill the hollows between, as they are apt to do, (the glaciers causing a chillness in the ravines, while the wind, blowing *up* the larger valleys, clears the edges of the crests,) the summits show themselves as in Plate 36., dividing, with their dark frontlets, the perpetual sweep of the glaciers and the clouds.<sup>1</sup>

§ 20. Of the aqueous curvatures of this crest, we shall have more to say presently; meantime let us especially observe how the providential laws of beauty, acting with reversed data, arrive at similar results in the aiguilles and crests. In the aiguilles, which are of such hard rock that the fall of snow and trickling of streams do not affect them, the inner structure is so disposed as to bring out the curvatures by the mere fracture. In the crests and lower hills, which are of softer rock, and largely influenced by external violence, the inner structure is straight, and the necessary curvatures are produced by perspective, by external modulation, and by the balancing of adverse influences of cleavage. But, as the accuracy of an artist's eye is usually shown by his perceiving the inner anatomy which regulates growth and form, and as in the aiguilles, while we watch them, we are continually discovering new curves, so in the crests, while we watch them, we are continually discovering new straightnesses; and nothing more distinguishes good mountain-drawing, or mountain-seeing, from careless and inefficient mountain-drawing, than the observance of the marvellous parallelisms which exist among the beds of the crests.

§ 21. It indeed happens, not unfrequently, that in hills composed of somewhat soft rock, the aqueous contours will so prevail over the straight cleavage as to leave nothing manifest at the

<sup>1</sup> The aqueous curves and roundings on the nearer crest (La Côte) are peculiarly tender, because the gneiss of which it is composed is softer in grain than that of the Bouchard, and remains so even to the very top of the peak, *a*, in Fig. 61., where I found it mixed with a yellowish and somewhat sandy quartz rock, and generally much less protogenic than is usual at such elevations on other parts of the chain.







1900

The Top of

36. Crest of La Côte.





first glance but sweeping lines like those of waves. Fig. 43. p. 201. is the crest of a mountain on the north of the valley of Chamouni, known, from the rapid decay and fall of its crags, as the *Aiguille Pourri*; and at first there indeed seems little distinction between its contours and those of the summit of a sea wave. Yet I think also, if it *were* a wave, we should immediately suppose the tide was running towards the right hand; and if we examined the reason for this supposition, we should perceive that along the ridge the steepest falls of crag were always on the right-hand side; indicating a tendency in them to break rather in the direction of the line *a b* than any other. If we go half-way down the Montanvert, and examine the left side of the crest somewhat more closely, we shall find this tendency still more definitely visible, as in Fig. 62.



Fig. 62.

- § 22. But what, then, has given rise to all those coiled plungings of the crest hither and thither, yet with such strange unity of motion?

Yes. There is the cloud. How the top of the hill was first shaped so as to let the currents of water act upon it in so varied a way we know not, but I think that the appearance of *interior*

force of elevation is for the most part deceptive. The series of beds would be found, if examined in section, very uniform in their arrangement, only a little harder in one place, and more delicate in another. A stream receives a slight impulse this way or that, at the top of the hill, but increases in energy and sweep as it descends, gathering into itself others from its sides, and uniting their power with its own. A single knot of quartz occurring in a flake of slate at the crest of the ridge may alter the entire destinies of the mountain form. It may turn the little rivulet of water to the right or left, and that little turn will be to the future direction of the gathering stream what the touch of a finger on the barrel of a rifle would be to the direction of the bullet. Each succeeding year increases the importance of every determined form, and arranges in masses yet more and more harmonious, the promontories shaped by the sweeping of the eternal waterfalls.

- § 23. The importance of the results thus obtained by the slightest change of direction in the infant streamlets, furnishes an interesting type of the formation of human characters by habit. Every one of those notable ravines and crags is the expression, not of any sudden violence done to the mountain, but of its little *habits*, persisted in continually. It was created with one ruling instinct; but its destiny depended nevertheless, for effective result, on the direction of the small and all but invisible tricklings of water, in which the first shower of rain found its way down its sides. The feeblest, most insensible oozings of the drops of dew among its dust were in reality arbiters of its eternal form; commissioned, with a touch more tender than that of a child's finger,—as silent and slight as the fall of a half-checked tear on a maiden's cheek,—to fix for ever the forms of peak and precipice, and hew those leagues of lifted granite into the shapes that were to divide the earth and its kingdoms. Once the little stone evaded,—once the dim furrow traced,—and the peak was for ever invested with its majesty, the ravine for ever doomed to its degradation. Thenceforward, day by day, the subtle habit gained in power; the evaded stone was left with wider basement; the chosen furrow deepened with swifter-sliding wave; repentance and arrest were alike impossible, and hour after hour saw written in larger and

rockier characters upon the sky, the history of the choice that had been directed by a drop of rain, and of the balance that had been turned by a grain of sand.

§ 24. Such are the principal laws, relating to the crested mountains, for the expression of which we are to look to art; and we shall accordingly find good and intelligent mountain-drawing distinguished from bad mountain-drawing, by an indication, first, of the artist's recognition of some great harmony among the summits, and of their tendency to throw themselves into tidal waves, closely resembling those of the sea itself; sometimes in free tossing towards the sky, but more frequently still in the form of *breakers*, concave and steep on one side, convex and less steep on the other; secondly, by his indication of straight beds or fractures, continually stiffening themselves through the curves in some given direction.

§ 25. Fig. 63. is a facsimile of a piece of the background in Albert Durer's woodcut of the binding of the great Dragon in the Apocalypse. It is one of his most careless and rudest pieces of drawing; yet, observe in it how notably the impulse of the



Fig. 63.

breaking wave is indicated; and note farther, how different a thing good drawing may be from delicate *drawing* on the one hand, and how different it must be from ignorant drawing on the other. Woodcutting, in Durer's days, had reached no delicacy capable of expressing subtle detail or ærial perspective. But all the subtlety and ærial perspective of modern days are useless, and even barbarous, if they fail in the expression of the essential mountain facts.

§ 26. It will be noticed, however, that in this example of Durer's, the recognition of straightness of line does not exist, and that for this reason the hills look soft and earthy, not rocky.

So, also, in the next example, Fig. 64., the crest in the middle



Fig. 64.

distance is exceedingly fine in its expression of mountain force; the two ridges of it being thrown up like the two edges of a return wave that has just been beaten back from a rock. It is still, however, somewhat wanting in the expression of straightness, and therefore slightly unnatural. It was not people's way in the Middle Ages to look at mountains carefully enough to discover the most subtle elements of their structure. Yet, in the next example, Fig. 65., the parallelism and rigidity are definitely indicated, the crest outline being, however, less definite.



Fig. 65.

Note, also (in passing), the entire equality of the lines in all these examples, whether turned to dark or light. All good outline drawing, as noticed in the chapter on finish, agrees in this character.

- § 27. The next figure (66.) is interesting because it furnishes one of the few instances in which Titian definitely took a suggestion from the Alps, as he saw them from his house at Venice. It is from an old print of a shepherd with a flock of sheep by the sea-side, in which he has introduced a sea distance, with the Venetian church of St. Helena, some subordinate buildings resembling those of Murano, and this piece of cloud and mountain. The peak represented is one of the greater Tyrolese Alps, which shows itself from Venice behind an opening in the chain, and is their culminating point. In reality the mass is of the shape given in Fig. 67. Titian has modified it into an energetic crest, showing his feeling for the form, but I have no doubt that the woodcut reverses Titian's original work (whatever it was), and that he gave the crest the true inclination to the right, or east, which it has in nature.



Fig. 66.

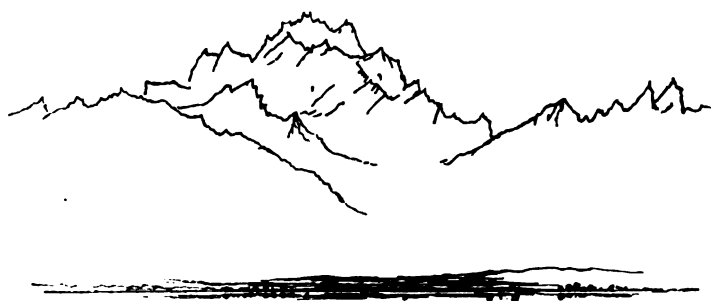


Fig. 67.

- § 28. Now, it not unfrequently happens that in Claude's distances he introduces actual outlines of Capri, Ischia, Monte St. Angelo, the Alban Mount, and other chains about Rome and Naples, more or less faithfully copied from nature. When he does so, confining himself to mere outline, the grey contours seen against the distance are often satisfactory enough; but as soon as he brings one of them nearer, so as to require any drawing within its mass, it is quite curious to see the state of paralysis into which he is thrown for want of any perception of the mountain anatomy. Fig. 68. over leaf, is one of the largest hills I can find in the *Liber Veritatis* (No. 86.), and it will be seen that there are only a few lines inserted towards the edges, drawn in the direction of the sides of the heap, or cone, wholly without consciousness of any interior structure.
- § 29. I put below it, outlined also in the rudest way (for as I take the shade away from the *Liber Veritatis*, I am bound also to take it away from Turner), Fig. 69., a bit of the crags in the drawing of Loch Coriskin, partly described already in § 5. of the chapter on the Inferior Mountains in Vol. I. The crest form is, indeed, here accidentally prominent, and developed to a degree rare even with Turner; but note, besides this, the way in which Turner leans on the *centre* and body of the hill, not on its edge; marking its strata stone by stone, just as a good figure painter, drawing a limb, marks the fall and rise of the joint, letting the outline sink back softened; and compare the exactly opposite method of Claude, holding for life to his outline, as a Greek navigator holds to the shore.<sup>1</sup>
- § 30. Lest, however, it should be thought that I have unfairly chosen my examples, let me take an instance, at once less singular and more elaborate.

<sup>1</sup> It is worth while noting here, in comparing Fig. 66. and Fig. 68., how entirely our judgment of some kinds of art depends upon knowledge, not on feeling. Any person unacquainted with hills would think Claude's right, and Titian's ridiculous; but, after inquiring a little farther into the matter, we find Titian's a careless and intense expression of true knowledge, and Claude's a slow and plausible expression of total ignorance.

It will be observed that Fig. 69. is one of the second order of crests, *d*, in Fig. 204. above. The next instance given is of the first order of crests, *c*, in the same figure.

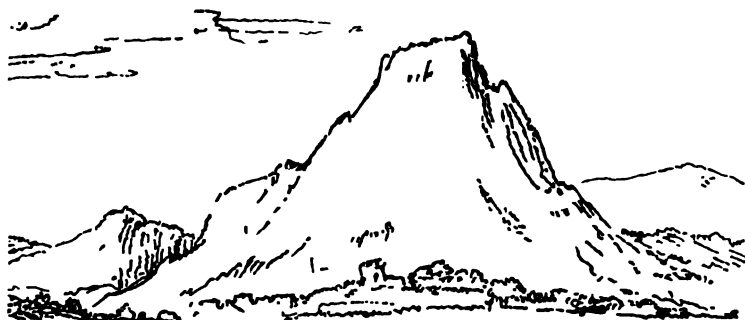


Fig. 68.

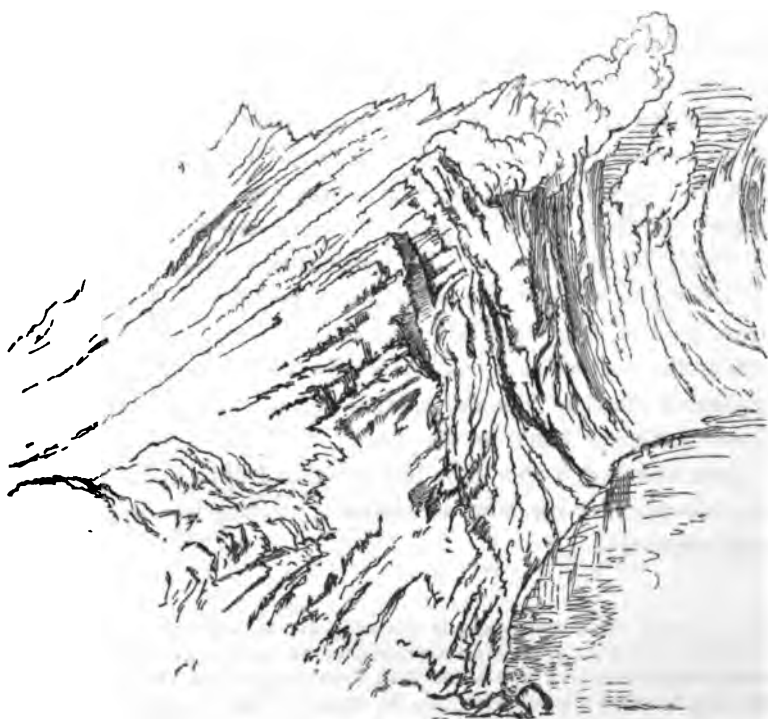


Fig. 69.







37. Crests of the Slaty Crystallines.





We saw in our account of Turnerian topography, Chap. II. § 14. that it had been necessary for the painter, in his modification of the view in the ravine of Faïdo, to introduce a passage from among the higher peaks; which, being thus intended expressly to convey the general impression of their character, must sufficiently illustrate what Turner felt that character to be. Observe: it could not be taken from the great central aiguilles, for none such exist at all near Faïdo; it could only be an expression of what Turner considered the noblest attributes of the hills next to these in elevation, — that is to say, those which we are now examining.

I have etched the portion of the picture which includes this passage, opposite, on its own scale, including the whole couloir above the gallery, and the gallery itself, with the rocks beside it.<sup>1</sup> And now, if the reader will look back to Plate 20., which is the outline of the *real* scene, he will have a perfect example, in comparing the two, of the operation of invention of the highest order on a given subject. I should recommend him to put a piece of tracing paper over the etching, Plate 37., and with his pen to follow some of the lines of it as carefully as he can, until he feels their complexity, and the redundancy of the imaginative power which amplified the simple theme, furnished by the natural scene, with such detail; and then let him observe what great mountain laws Turner has been striving to express in all these additions.

- § 31. The cleavages which govern the whole are precisely the same as those of the Aiguille Bouchard, only wrought into grander combinations. That the reader may the better distinguish them, I give the leading lines coarsely for reference in Fig. 70. over leaf. The cleavages and lines of force are the following.

<sup>1</sup> This etching, like that of the Bolton rocks, is prepared for future mezzotint, and looks harsh in its present state; but will mark all the more clearly several points of structure in question. The diamond-shaped rock, however, (M, in the reference figure,) is not so conspicuous here as it will be when the plate is finished, being relieved in light from the mass behind, as also the faint distant crests in dark from the sky

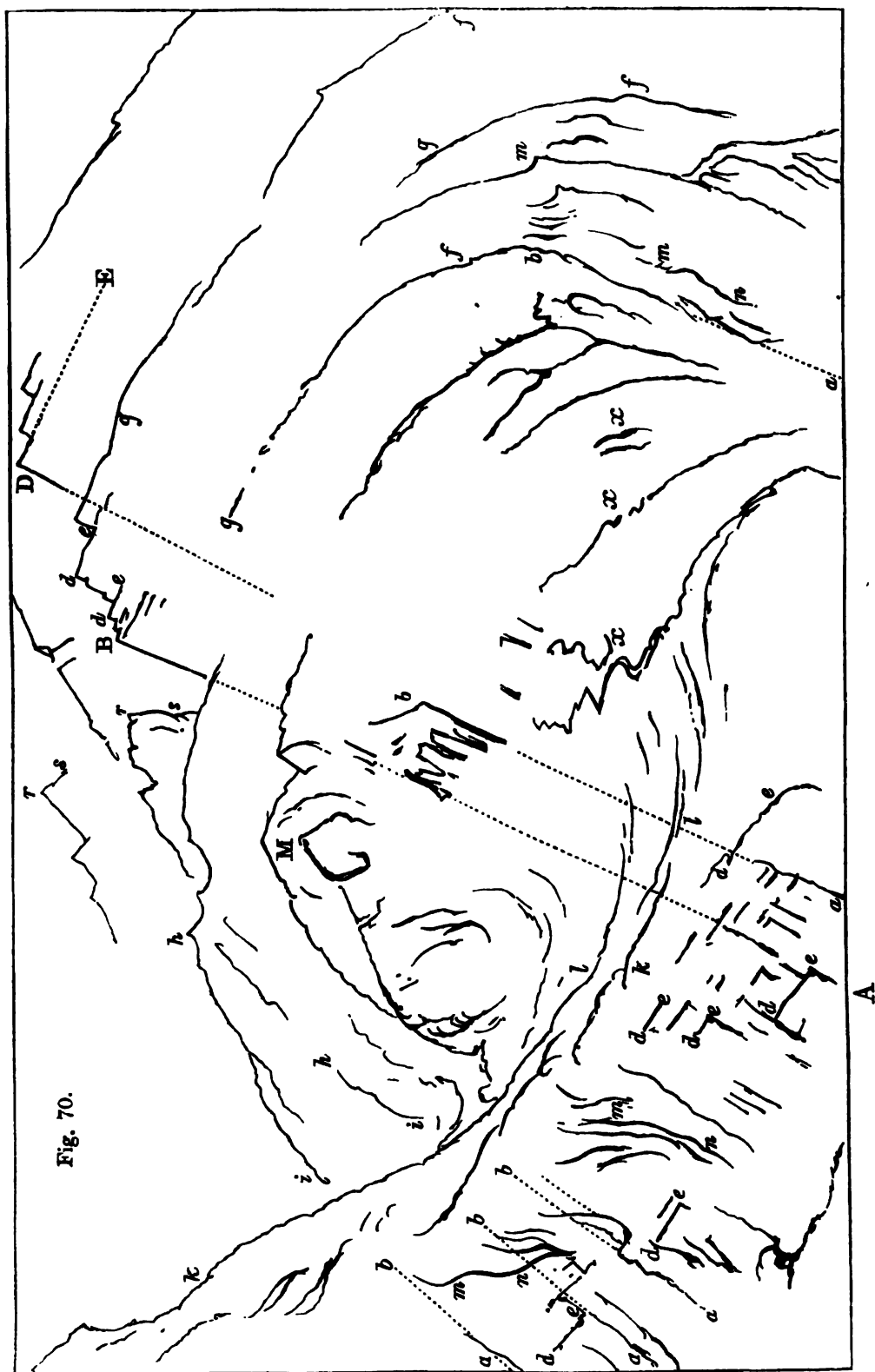


Fig. 70.

1. *A B* and associated lines *a b*, *a b*, &c., over the whole plate. True beds or cleavage beds (*g h* in Aiguille Bouchard, Plate 34.); here, observe, closing in retiring perspective with exquisite subtlety, and giving the great unity of radiation to the whole mass.
2. *D E* and associated lines *d e*, *d e*, over all the plate. Cross cleavage, the second in Aiguille Bouchard; straight and sharp. Forming here the series of crests at *B* and *D*.
3. *r s*, *r s*. Counter-crests, closely corresponding to counter-fracture, the third in Aiguille Bouchard.
4. *m n*, *m n*, &c., over the whole. Writhing aqueous lines falling gradually into the cleavages. Fifth group in Aiguille Bouchard. The starchy cleavage is not seen here, it being not generally characteristic of the crests, and present in the Bouchard only accidentally.
5. *x x x*. Sinuous lines worn by the water, indicative of some softness or flaws in the rock; these probably the occasion or consequence of the formation of the great precipice or brow on the right. We shall have more to say of them in Chap. XVII.
6. *g f*, *g f*, &c. Broad aqueous or glacial curvatures. The sixth group in Aiguille Bouchard.
7. *k l*, *k l*. Concave curves wrought by the descending avalanche; peculiar, of course, to this spot.
8. *i h*, *i h*. Secondary convex curves, glacial or aqueous, corresponding to *g f*, but wrought into the minor secondary ravine. This secondary ravine is associated with the opponent aiguillesque masses *r s*; and the cause of the break or gap between these and the crests *B D* is indicated by the elbow or joint of nearer rock, *M*, where the distortion of the beds or change in their nature first takes place. Turner's idea of the structure of the whole mass has evidently been that in section it was as in Fig. 71.,

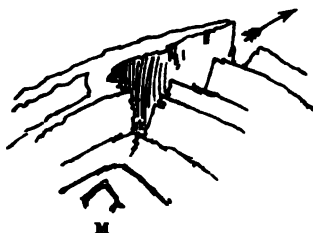


Fig. 71.

snapped asunder by elevation, with a nucleus at M, which, allowing for perspective, is precisely on the line of the chasm running in the direction of the arrow; but he gives more of the curved aiguillesque fracture to these upper crests, which are greater in elevation (and we saw, sometime ago, that the higher the rock the harder). And that nucleus of change at M, the hinge, as it were, on which all these promontories of upper crest revolve, is the first or nearest of the evaded stones, which have determined the course of streams and nod of cliffs throughout the chain.

- § 32. I can well believe that the reader will doubt the possibility of all this being intended by Turner: and *intended*, in the ordinary sense, it was not. It was simply seen, and instinctively painted, according to the command of the imaginative dream, as the true Griffin was, and as all noble things are. But if the reader fancies that the apparent truth came by mere chance, or that I am imagining purpose and arrangement where they do not exist, let him be once for all assured that no man goes through the kind of work which, by this time, he must be beginning to perceive I *have* gone through, either for the sake of deceiving others, or with any great likelihood of deceiving himself. He who desires to deceive the picture-purchasing public may do so cheaply; and it is easy to bring almost any kind of art into notice, without climbing Alps or measuring cleavages. But any one, on the other hand, who desires to ascertain facts, and will refer all art directly to nature, for many laborious years, will not at last find himself an easy prey to groundless enthusiasms, or erroneous fancies. Foolish people are fond of repeating a story which has gone the full round of the artistical world,—that Turner, some day, somewhere, said to somebody (time, place, or person never being ascertainable), that I discovered in his pictures things which he did himself not know were there. Turner was not a person apt to say things of this kind; being generally, respecting all the movements of his own mind, as silent as a granite crest; and if he ever did say it, was probably laughing at the person to whom



he was speaking. But he *might* have said it in the most perfect sincerity; nay, I am quite sure that, to a certain extent, the case really was as he is reported to have declared, and that he neither was aware of the value of the truths he had seized, nor understood the nature of the instinct that combined them. And yet the truth was assuredly apprehended, and the instinct assuredly present and imperative; and any artists who try to imitate the smallest portion of his work will find that no happy chances will, for them, gather together the resemblances of fact, nor, for them, mimic the majesty of invention.<sup>1</sup>

- § 33. No happy chance — nay, no happy thought — no perfect knowledge — will ever take the place of that mighty unconsciousness. I have often had to repeat that Turner, in the ordinary sense of the words, neither knew nor thought so much as other men. Whenever his *perception* failed — that is to say, with respect to scientific truths which produce no result palpable to the eye — he fell into the frankest errors. For instance, in such a thing as the relation of position between a rainbow and the sun, there is not any definitely visible connection between them; it needs attention and calculation to discover that the centre of the rainbow is the shadow of the spectator's head.<sup>2</sup> And attention or calculation of this abstract kind Turner appears to have been utterly incapable of; but if he drew a piece of drapery, in which every line of the folds has a *visible* relation to the points of suspension, not a merely calculable one, this relation he will see to

<sup>1</sup> An anecdote is related, more to our present purpose, and better authenticated, inasmuch as the name of the artist to whom Turner was speaking at the time is commonly stated, though I do not give it here, not having asked his permission. The story runs that this artist (one of our leading landscape painters) was complaining to Turner that, after going to Domo d'Ossola, to find the site of a particular view which had struck him several years before, he had entirely failed in doing so; "it looked different when he went back again." "What," replied Turner, "do you not know yet, at your age, that you ought to *paint* your *impressions*?"

<sup>2</sup> So, in the exact length or shape of shadows in general, he will often be found quite inaccurate; because the irregularity caused in shadows by the shape of what they fall on, as well as what they fall from, renders the law of connection untraceable by the eye or the instinct. The chief *visible* thing about a shadow is, that it is always of some form which nobody would have thought of; and this visible principle Turner always seizes, sometimes wrongly in calculated fact, but always so rightly as to give more the look of a real shadow than any one else.

the last thread; and thus he traces the order of the mountain crests to their last stone, not because he knows anything of geology, but because he instinctively seizes the last and finest traces of any visible law.

- § 34. He was, however, especially obedient to these laws of the crests, because he heartily loved them. We saw in the early part of this chapter how the crest outlines harmonized with nearly every other beautiful form of natural objects, especially in the continuity of their external curves. This continuity was so grateful to Turner's heart that he would often go great lengths to serve it. For instance, in one of his drawings of the town of Lucerne he has first outlined the Mont Pilate in pencil, with a central peak, as indicated by the dotted line in Fig. 72.



Fig. 72.

This is nearly true to the local fact; but being inconsistent with the general look of crests, and contrary to Turner's instincts, he strikes off the refractory summit, and, leaving his pencil outline still in the sky, touches with colour only the contour shown by the continuous line in the figure, thus treating it just as we saw Titian did the great Alp of the Tyrol. He probably, however, would not have done this with so important a feature of the scene as the Mont Pilate, had not the continuous line been absolutely necessary to his composition, in order to oppose the peaked towers of the town, which were his principal subject; the form of the Pilate being seen only as a rosy shadow in the far off sky.

We cannot, however, yet estimate the importance, in his mind, of this continuity of descending curve, until we come to the examination of the lower hill *flanks*, hitherto having been concerned only with their rocky summits; and before we leave those summits, or rather the harder rocks which compose them, there is yet another condition of those rocks to be examined; and that the condition which is commonly the most interesting, namely, the Precipice. To this inquiry, however, we had better devote a separate chapter.

## CHAPTER XVI.

## RESULTING FORMS: — THIRDLY, PRECIPICES.

§ 1. THE reader was, perhaps, surprised by the smallness of the number to which our foregoing analysis reduced Alpine summits bearing an ascertainably peaked or pyramidal form. He might not be less so if I were to number the very few occasions on which I have seen a true precipice of any considerable height. I mean by a true precipice, one by which a plumb-line will swing clear, or without touching the face of it, if suspended from a point a foot or two beyond the brow. Not only are perfect precipices of this kind very rare, but even imperfect precipices, which often produce upon the eye as majestic an impression as if they were vertical, are nearly always curiously low in proportion to the general mass of the hills to which they belong. They are for the most part small steps or rents in large surfaces of mountain, and mingled by Nature among her softer forms, as cautiously and sparingly as the utmost exertion of his voice is, by a great speaker, with his tones of gentleness.

§ 2. Precipices, in the large plurality of cases, consist of the edge of a bed of rock, sharply fractured, in the manner already explained in Chap. XII., and are represented, in their connection with aiguilles and crests, by *c* in Fig. 42. p. 200. When the bed of rock slopes backwards from the edge, as *a* Fig. 73., a condition of precipice is obtained more or less



Fig. 73.

peaked, very safe, and very grand.<sup>1</sup> When the beds are horizontal, *b*, the precipice is steeper, more dangerous, but much less impressive. When the beds slope towards the precipice, the front of it overhangs, and the noblest effect is obtained which is possible in mountain forms of this kind.

§ 3. Singularly enough, the type *b* is in actual nature nearly always the most dangerous of the three, and *c* the safest, for horizontal beds are usually of the softest rocks, and their cliffs are caused by some violent agency in constant operation, as chalk cliffs by the wearing power of the sea, so that such rocks are continually falling, in one place or another. The form *a* may also be assumed by very soft rocks. But *c* cannot exist at all on a large scale, unless it is built of good materials, and it will then frequently stay in its fixed frown for ages.

§ 4. It occasionally happens that a precipice is formed among the higher crests by the *sides* of vertical beds of slaty crystallines. Such rocks are rare, and never very high, but always beautiful in their smoothness of surface and general trenchant and firm expression. One of the most interesting I know is that of the summit of the Breven, on the north of the valley of Chamouni. The mountain is formed by vertical sheets of slaty crystallines, rather soft at the bottom, and getting harder and harder towards the top, until at the very summit it is as hard and compact as the granite of Waterloo Bridge, though much finer in the grain, and breaking into perpendicular faces of rock so perfectly cut as to feel smooth to the hand. Fig. 4. p. 109. represents, of the real size, a bit which I broke from the edge of the cliff, the shaded part underneath being the surface which forms the precipice. The plumb-line from the brow of this cliff hangs clear 124 English feet; it is then caught by a ledge about three feet wide, from which another precipice falls to about twice the height of the first; but I had not line enough to measure it with from the top, and could not get down to the ledge. When I say the line hangs *clear*, I mean, when once it is off the actual brow of

<sup>1</sup> Distinguished from a *crest* by being the *face* of a large continuous bed of rock, not the end of a ridge.

the cliff, which is a little rounded for about fourteen or fifteen feet, from *a* to *b*, in the section, Fig. 75. Then the rock recedes in an almost unbroken concave sweep, detaching itself from the plumb-line about two feet at the point *c* (the lateral dimensions are exaggerated to show the curve), and approaching it again at the ledge *d*, which is 124 feet below *a*. The plumb-line, fortunately, can be seen throughout its whole extent from a sharp bastion of the precipice farther on, for the face of the cliff runs, in horizontal plan, very nearly to the magnetic north and south, as shown in Fig. 74., the plumb-line swinging at *a*, and seen from the advanced point *P*. It would give a similar result at any other part of the cliff face, but may be most conveniently cast from the point *a*, a little below, and to the north of, the summit.



Fig. 74.

- § 5. But although the other divisions of this precipice, below the ledge which stops the plummet, give it altogether a height of about five hundred feet<sup>1</sup>, the whole looks a mere step on the huge slope of the Breven; and it only deserves mention among Alpine cliffs as one of singular beauty and decision, yet perfectly approachable and examinable even by the worst climbers; which is very rarely the case with cliffs of the same boldness. I suppose that this is the reason for its having been often stated in scientific works that no cliff could be found in the Alps from which a plumb-line would swing two hundred feet. This can *possibly* be true (and even with this limitation I doubt it) of cliffs conveniently approachable by experimental philosophers. For, indeed, one way or another, it is curious how



Fig. 75.

<sup>1</sup> The contour of the whole cliff, seen from near its foot as it rises above the shoulder of the Breven, is as at Fig. 76. opposite. The part measured is *a d*; but the

Nature fences out, as it were, the brows of her boldest precipices. Wherever a plumb-line will swing, the precipice is, almost without exception, of the type *c* in Fig. 73., the brow of it rounding towards the edge for, perhaps, fifty or a hundred yards above, rendering it unsafe in the highest degree for any inexperienced person to attempt approach. But it is often possible to ascertain from a distance, if the cliff can be got relieved against the sky, the approximate degree of its precipitousness.

§ 6. It may, I think, be assumed, almost with certainty, that whenever a precipice is very bold and very high, it is formed by beds

precipice recedes to the summit *b*, on which a human figure is discernible to the naked eye merely as a point. The bank from which the cliff rises, *c*, *recedes* as it falls to the left; so that five hundred feet may perhaps be an under-estimate of the height below the summit. The straight sloping lines are cleavages, across the beds.

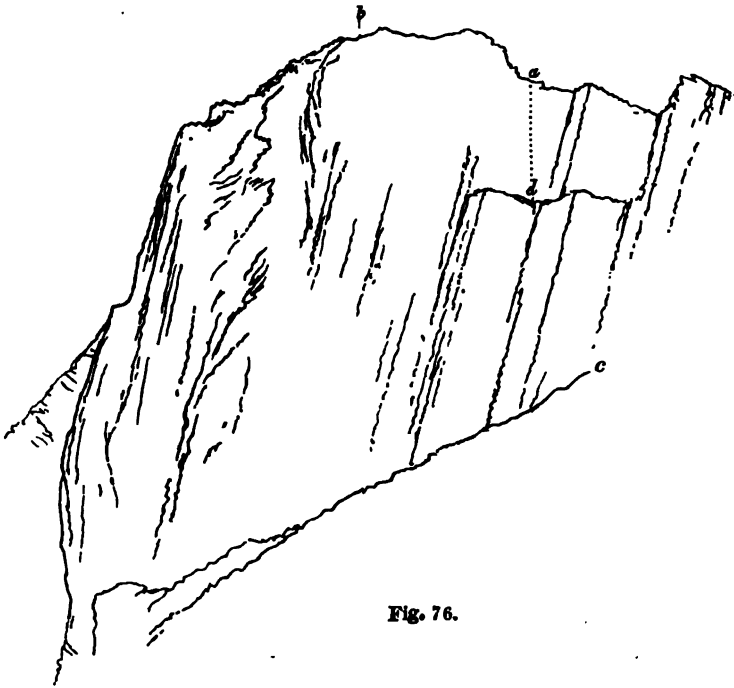


Fig. 76.

Finally, Fig. 4. Plate 25. gives the look of the whole summit as seen from the village of Chamouni beneath it, at a distance of about two miles, and some four or five thousand feet above the spectator. It appears, then, like a not very formidable projection of crag overhanging the great slopes of the mountain's foundation.

more or less approaching horizontality, out of which it has been cut, like the side of a haystack from which part has been removed. The wonderfulness of this operation I have before insisted upon; here we have to examine the best examples of it.

As, in forms of central rock, the Aiguilles of Chamouni, so in notableness of lateral precipice, the Matterhorn, or Mont Cervin, stands, on the whole, unrivalled among the Alps, being terminated, on two of its sides, by precipices which produce on the imagination nearly the effect of verticality. There is, however, only one point at which they reach anything approaching such a condition; and that point is wholly inaccessible either from below or above, but sufficiently measurable by a series of observations.

- § 7. From the slope of the hill above, and to the west of, the village of Zermatt, the Matterhorn presents itself under the figure shown on the right hand in the opposite plate (38.). The whole height of the mass, from the glacier out of which it rises, is about 4000 feet; and although, as before noticed, the first slope from the top towards the right is merely a perspective line, the part of the contour *c d*, Fig. 33. p. 186., which literally overhangs<sup>1</sup>, cannot be. An apparent slope, however steep, so that it does not overpass the vertical, *may* be a horizontal line; but the moment it can be shown literally to overhang, it *must* be one of two things, — either an actually pendent *face* of rock, as at *a* Fig. 77., or the under-edge of an overhanging *cornice* of rock,

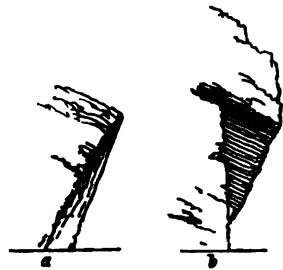


Fig. 77.

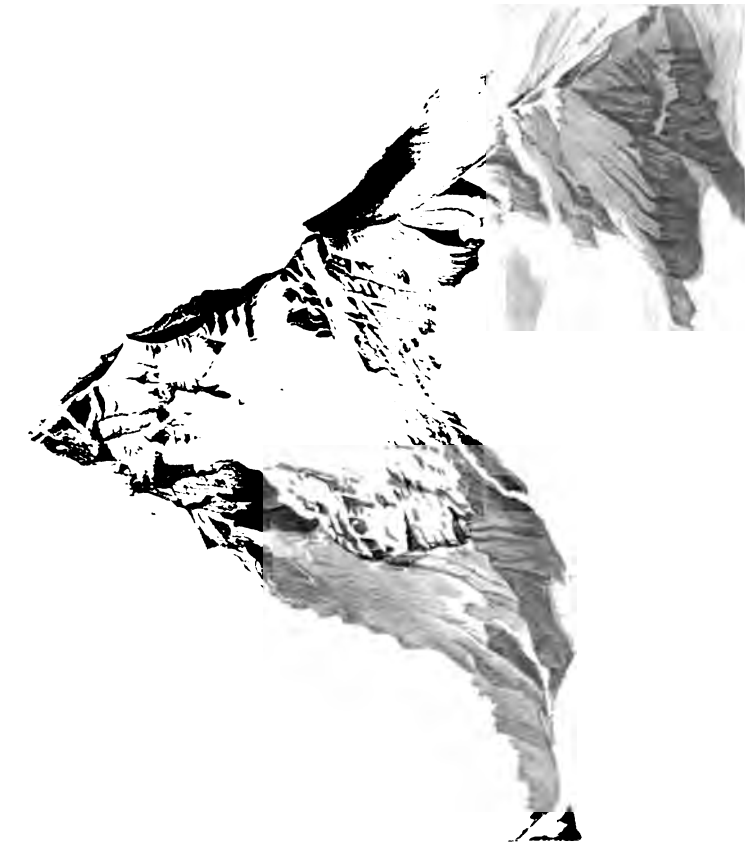
- b.* Of course the latter condition, on such a scale as this of the Matterhorn, would be the more wonderful of the two; but I was anxious to determine which of these it really was.
- § 8. My first object was to reach some spot commanding, as nearly as might be, the lateral profile of the Mont Cervin. The most

<sup>1</sup> At an angle of  $79^{\circ}$  with the horizon. See the Table of angles, p. 186. The line *a c* in Fig. 33. is too steep, as well as in the plate here; but the other slopes are approximately accurate. I would have made them quite so, but did not like to alter the sketch made on the spot.

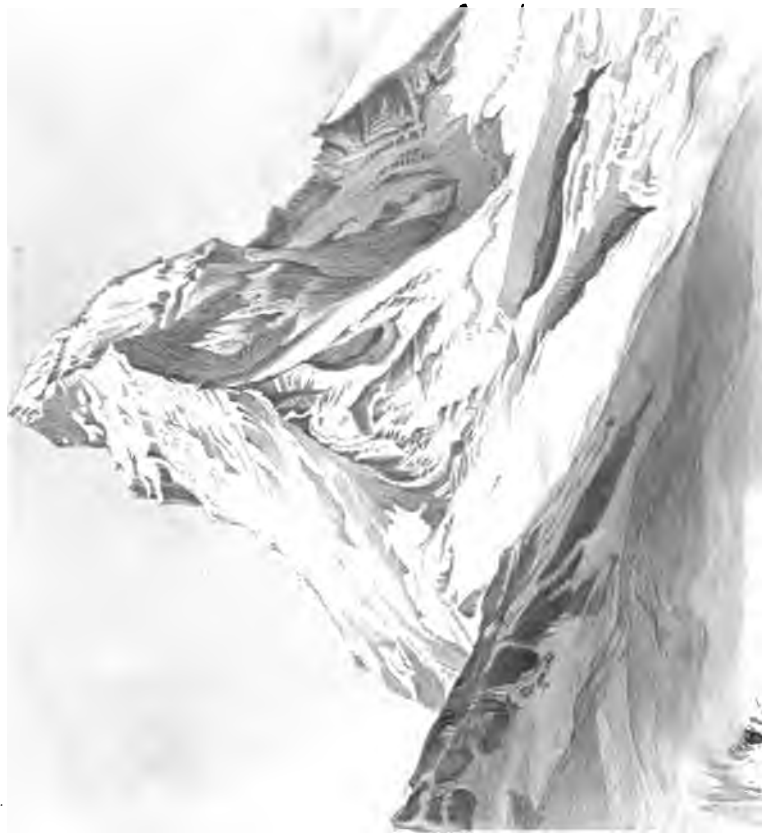








J Ruskin.



J C Arnyet-age.

38. The Cervin, from the East, and North-East.



available point for this purpose was the top of the Riffelhorn; which, however, first attempting to climb by its deceitful western side, and being stopped, for the moment, by the singular moat and wall which defend its Malakhoff-like summit, fearing that I might not be able ultimately to reach the top, I made the drawing of the Cervin, on the left hand in Plate 38., from the edge of the moat; and found afterwards the difference in aspect, as it was seen from the true summit, so slight as not to necessitate the trouble of making another drawing.<sup>1</sup>

\* § 9. It may be noted in passing, that this wall which with its regular fosse defends the Riffelhorn on its western side, and a similar one on its eastern side, though neither of them of any considerable height, are curious instances of trenchant precipice, formed, I suppose, by slight slips or faults of the serpentine rock. The summit of the horn, *a*, Fig. 78. seems to have been pushed up in a mass beyond the rest of the ridge, or else the rest of the ridge to have dropped from it on each side, at *b c*, leaving the two troublesome faces of cliff right across the crag; hard, green as a sea wave, and polished like the inside of a sea-



Fig. 78.

<sup>1</sup> Professor Forbes gives the bearing of the Cervin from the top of the Riffelhorn as  $351^{\circ}$ , or  $\pi. 9^{\circ}$  w., supposing local attraction to have caused an error of  $65^{\circ}$  to the northward, which would make the true bearing  $\pi. 74^{\circ}$  w. From the point just under the Riffelhorn summit, *e*, in Fig. 78., at which my drawing was made, I found the Cervin bear  $\pi. 79^{\circ}$  w. without any allowance for attraction; the disturbing influence would seem therefore confined, or nearly so, to the summit *a*. I did not know at the time that there was any such influence traceable, and took no bearing from the summit. For the rest, I cannot vouch for bearings as I can for angles, as their accuracy was of no importance to my work, and I merely noted them with a common pocket compass and in the sailor's way (*s. by w. and  $\frac{1}{2}$  w. &c.*), which involves the probability of error of from two to three degrees on either side of the true bearing. The other drawing in Plate 38. was made from a point only a degree or two to the westward of the village of Zermatt. I have no note of the bearing; but it must be about *s.  $60^{\circ}$  or  $65^{\circ}$  w.*

shell, where the weather has not effaced the surface produced by the slip. It is only by getting past the eastern cliff that the summit can be reached at all, for on its two lateral escarpments the mountain seems quite inaccessible, being in its whole mass nothing else than the top of a narrow wall with a raised battlement, as rudely shown in perspective at *ed*; the flanks of the wall falling towards the glacier on one side, and to the lower Riffel on the other, four or five hundred feet, not, indeed, in unbroken precipice, but in a form quite incapable of being scaled.<sup>1</sup>

- § 10. To return to the Cervin. The view of it given on the left hand in Plate 38. shows the ridge in about its narrowest profile; and shows also that this ridge is composed of beds of rock shelving across it, apparently horizontal, or nearly so, at the top, and sloping considerably southwards (to the spectator's left), at the bottom. How far this slope is a consequence of the advance of the nearest angle, giving a steep perspective to the beds, I cannot say; my own belief would have been that a great deal of it is thus deceptive, the beds lying as the tiles do in the somewhat anomalous, but perfectly conceivable house-roof, Fig. 79. Saussure, however, attributes to the beds themselves a very considerable slope. But be this as it may, the main facts of the thinness of the beds, their comparative horizontality, and the daring sword-sweep by which the whole mountain has been hewn out of them, are from this spot comprehensible at a glance. Visible, I *should* have said; but eternally, and to the



Fig. 79.

<sup>1</sup> Independent travellers may perhaps be glad to know the way to the top of the Riffelhorn. I believe there is only one path; which ascends (from the ridge of the Riffel) on its eastern slope, until, near the summit, the low, but perfectly smooth cliff, extending from side to side of the ridge, seems, as on the western slope, to bar all farther advance. This cliff may, however, by a good climber, be mastered even at the southern extremity; but it is dangerous there: at the opposite, or northern, side of it, just at its base, is a little cornice, about a foot broad, which does not look promising at first, but widens presently; and when once it is past, there is no more difficulty in reaching the summit.

uttermost, incomprehensible. Every geologist who speaks of this mountain seems to be struck by the wonderfulness of its calm sculpture—the absence of all aspect of convulsion, and yet the stern chiselling of so vast a mass into its precipitous isolation, leaving no ruin nor debris near it. “Quelle force n’a-t-il pas fallu,” exclaims M. Saussure, “pour rompre, et pour balayer tout ce qui manque à cette pyramide !” “What an overturn of all ancient ideas in Geology,” says Professor Forbes, “to find a pinnacle of 15,000 feet high [above the sea] sharp as a pyramid, and with perpendicular precipices of thousands of feet on every hand, to be a representative of the older chalk formation; and what a difficulty to conceive the nature of a convulsion (even with unlimited power), which could produce a configuration like the Mont Cervin rising from the glacier of Zmutt !”

- § 11. The term “perpendicular” is of course applied by the Professor in the “poetical” temper of Reynolds, — that is to say, in one “inattentive to minute exactness in details;” but the effect of this strange Matterhorn upon the imagination is indeed so great, that even the gravest philosophers cannot resist it; and Professor Forbes’s drawing of the peak, outlined at page 185., has evidently been made under the influence of considerable excitement. For fear of being deceived by enthusiasm also, I daguerreotyped the Cervin from the edge of the little lake under the crag of the Riffelhorn, with the somewhat amazing result shown in Fig. 80. So cautious is Nature, even in her boldest work, so broadly does she extend the foundations, and strengthen the buttresses, of masses which produce so striking an *impression* as to be described, even by the most careful writers, as perpendicular.



Fig. 80.

- § 12. The only portion of the Matterhorn which approaches such a condition is the shoulder, before alluded to, forming a step of about one twelfth the height of the whole peak, shown by light on its snowy side, or upper surface, in the right-hand figure of Plate 38. Allowing 4000 feet for the height of the peak,

this step or shoulder will be between 300 and 400 feet in absolute height; and as it is not only perpendicular, but assuredly overhangs, both at this snow-lighted angle and at the other corner of the mountain (seen against the sky in the same figure), I have not the slightest doubt that a plumb-line would swing from the brow of either of these bastions, between 600 and 800 feet, without touching rock. The intermediate portion of the cliff which joins them is, however, not more than vertical. I was therefore anxious chiefly to observe the structure of the two angles, and, to that end, to see the mountain close on that side, from the Zmutt glacier.

- § 13. I am afraid my dislike to the nomenclatures invented by the German philosophers has been unreasonably, though involuntarily, complicated with that which, crossing out of Italy, one necessarily feels for those invented by the German peasantry. As travellers now every day more frequently visit the neighbourhood of the Monte Rosa, it would surely be a permissible, because convenient, poetical license, to invent some other name for this noble glacier, whose present title, certainly not euphonious, has the additional disadvantage of being easily confounded with that of the *Zermatt* glacier, properly so called. I mean myself, henceforward, to call it the Red glacier, because, for two or three miles above its lower extremity, the whole surface of it is covered with blocks of reddish gneiss, or other slaty crystalline rocks,—some fallen from the Cervin, some from the Weisshorn, some brought from the Stockhi and Dent d'Erin, but little rolled or ground down in the transit, and covering the ice, often four or five feet deep, with a species of macadamization on a large scale (each stone being usually some foot or foot and a half in diameter), anything but convenient to a traveller in haste. Higher up, the ice opens into broad white fields and furrows, hard and dry, scarcely fissured at all, except just under the Cervin, and forming a silent and solemn causeway, paved, as it seems, with white marble from side to side; broad enough for the march of an army in line of battle, but quiet as a street of tombs in a buried city, and bordered on each hand by ghostly cliffs of that faint granite purple which seems, in its far-away



height, as unsubstantial as the dark blue that bounds it;—the whole scene so changeless and soundless; so removed, not merely from the presence of men, but even from their thoughts; so destitute of all life of tree or herb, and so immeasurable in its lonely brightness of majestic death, that it looks like a world from which not only the human, but the spiritual, presences had perished, and the last of its archangels, building the great mountains for their monuments, had laid themselves down in the sunlight to an eternal rest, each in his white shroud.

- § 14. The first point from which the Matterhorn precipices, which I came to examine, show their structure distinctly, is about half-way up the valley, before reaching the glacier. The most convenient path, and access to the ice, are on the south; but it is best, in order to watch the changes of the Matterhorn, to keep on the north side of the valley; and, at the point just named, the shoulder marked *e*, in Fig. 33. p. 186., is seen, in the morning sunlight, to be composed of zigzag beds, apparently of eddied sand. (Fig. 81.)

I have no doubt they once *were* eddied sand; that is to say, sea or torrent drift, hardened by fire into crystalline rock; but whether they ever were or not, the certain fact is, that here we have a precipice, trenchant, overhanging, and 500 feet in height, cut across the thin beds which compose it as smoothly as a piece of fine-grained wood is cut with a chisel.



Fig. 81.

- § 15. From this point, also, the nature of the corresponding bastion, *c d*, Fig. 33., is also discernible. It is the edge of a great concave precipice, cut out of the mountain, as the smooth hollows are out of the rocks at the foot of a waterfall, and across which the variously coloured beds, thrown by perspective into corresponding curvatures, run exactly like the seams of canvass in a Venetian felucca's sail.

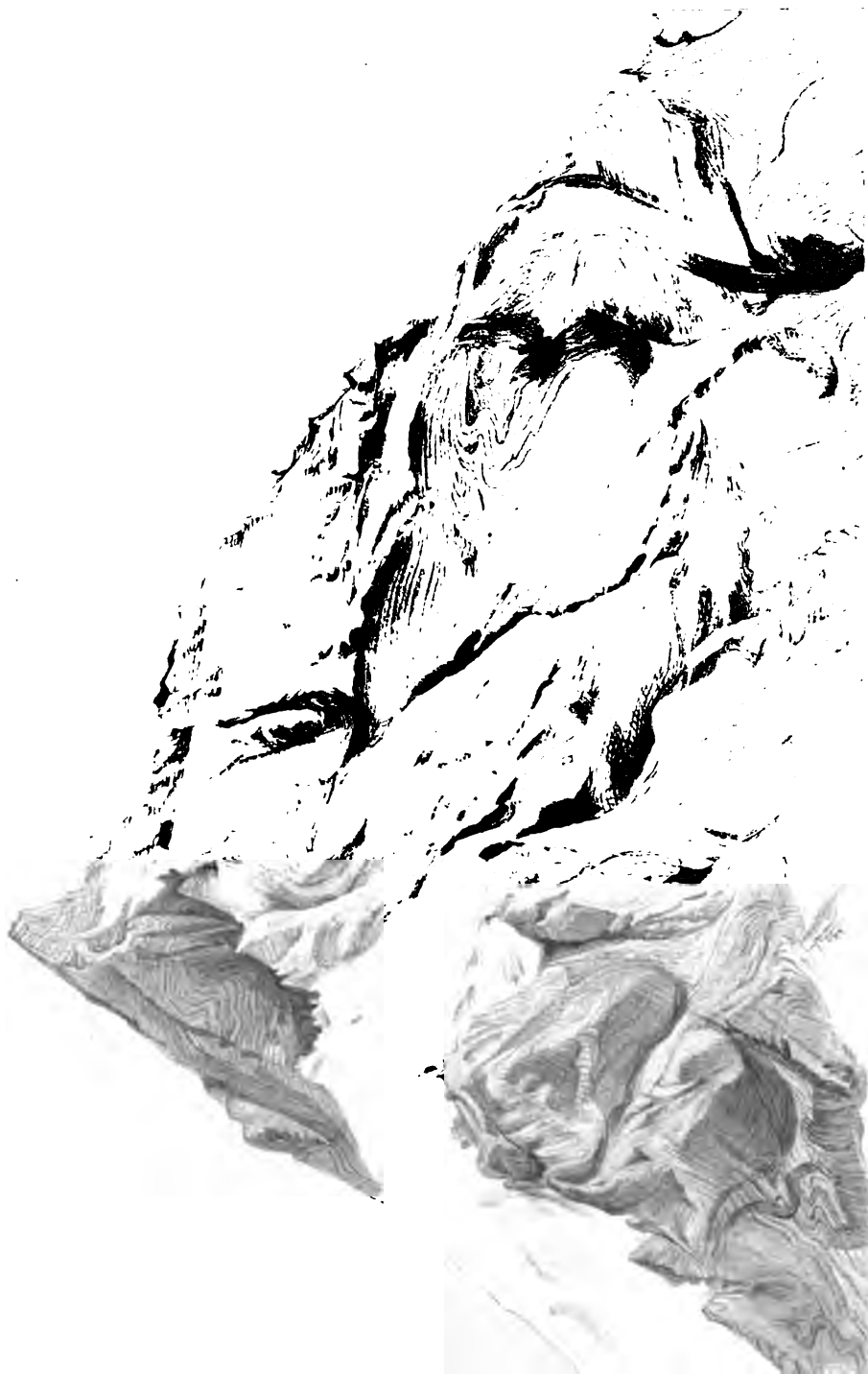
Seen from this spot, it seems impossible that the mountain should long support itself in such a form, but the impression is only caused by the concealment of the vast proportions of the mass behind, whose poise is quite unaffected by this hollowing at one

point. Thenceforward, as we ascend the glacier, the Matterhorn every moment expands in apparent width; and, having reached the foot of the Stockhi (about a four hours' walk from Zermatt), and getting the Cervin summit to bear S.  $11\frac{1}{2}^{\circ}$  E., I made the drawing of it engraved opposite, which gives a true idea of the relations between it and the masses of its foundation. The bearing stated is that of the apparent summit only, as from this point the true summit is not visible; the rocks which seem to form the greatest part of the mountain being in reality nothing but its foundations, while the little white jagged peak, relieved against the dark hollow just below the seeming summit, is the rock marked *g* in Fig. 33. But the structure of the mass, and the long ranges of horizontal, or nearly horizontal, beds which form its crest, showing in black points like arrow-heads through the snow, where their ridges are left projecting by the avalanche channels, are better seen than at any other point I reached, together with the sweeping and thin zones of sandy gneiss below, bending apparently like a coach-spring; and the notable point about the whole is, that this under-bed, of seemingly the most delicate substance, is that prepared by Nature to build her boldest precipice with, it being this bed which emerges at the two bastions or shoulders before noticed, and which by that projection causes the strange oblique distortion of the whole mountain mass, as it is seen from Zermatt.

- § 16. And our surprise will still be increased as we farther examine the materials of which the whole mountain is composed. In many places its crystalline slates, where their horizontal surfaces are exposed along the projecting beds of their foundations, break into ruin so total that the foot dashes through their loose red flakes as through heaps of autumn leaves; and yet, just where their structure seems most delicate, just where they seem to have been swept before the eddies of the streams that first accumulated them, in the most passive whirls, there the after ages have knit them into the most massive strength, and there have hewn out of them those firm grey bastions of the Cervin,—overhanging, smooth, flawless, unconquerable! For, unlike the Chamouni aiguilles, there is no aspect of destruction about the Matterhorn cliffs. They are not torn remnants of separating







J. C. Armytage

39. The Cervin, from the North-West.

J. Ruskin



spires, yielding flake by flake, and band by band, to the continual process of decay. They are, on the contrary, an unaltered monument, seemingly sculptured long ago, the huge walls retaining yet the forms into which they were first engraven, and standing like an Egyptian temple,—delicate-fronted, softly coloured, the suns of uncounted ages rising and falling upon it continually, but still casting the same line of shadows from east to west, still, century after century, touching the same purple stains on the lotus pillars; while the desert sand ebbs and flows about their feet, as those autumn leaves of rock lie heaped and weak about the base of the Cervin.

- § 17. Is not this a strange type, in the very heart and height of these mysterious Alps—these wrinkled hills in their snowy, cold, grey-haired old age, at first so silent, then, as we keep quiet at their feet, muttering and whispering to us garrulously, in broken and dreaming fits, as it were, about their childhood—is it not a strange type of the things which “out of weakness are made strong?” If one of those little flakes of mica-sand, hurried in tremulous spangling along the bottom of the ancient river, too light to sink, too faint to float, almost too small for sight, could have had a mind given to it as it was at last borne down with its kindred dust into the abysses of the stream, and laid, (would it not have thought?) for a hopeless eternity, in the dark ooze, the most despised, forgotten, and feeble of all earth’s atoms; incapable of any use or change; not fit, down there in the diluvial darkness, so much as to help an earth-wasp to build its nest, or feed the first fibre of a lichen;—what would it have thought, had it been told that one day, knitted into a strength as of imperishable iron, rustless by the air, infusible by the flame, out of the substance of it, with its fellows, the axe of God should hew that Alpine tower; that against *it*—poor, helpless, mica flake!—the wild north winds should rage in vain; beneath *it*—low-fallen mica flake!—the snowy hills should lie bowed like flocks of sheep, and the kingdoms of the earth fade away in unregarded blue; and around *it*—weak, wave-drifted mica flake!—the great war of the firmament should burst in thunder, and yet stir it not; and the fiery

arrows and angry meteors of the night fall blunted back from it into the air; and all the stars in the clear heaven should light, one by one as they rose, new cressets upon the points of snow that fringed its abiding place on the imperishable spire?

- § 18. I have thought it worth while, for the sake of these lessons, and the other interests connected with them, to lead the reader thus far into the examination of the principal precipices among the Alps, although, so far as our immediate purposes are concerned, the inquiry cannot be very fruitful or helpful to us. For rocks of this kind, being found only in the midst of the higher snow fields, are not only out of the general track of the landscape painter, but are for the most part quite beyond his power—even beyond Turner's. The waves of snow, when it becomes a principal element in mountain form, are at once so subtle in tone, and so complicated in curve and fold, that no skill will express them, so as to keep the whole luminous mass in anything like a true relation to the rock darkness. For the distant rocks of the upper peaks are themselves, when in light, paler than white paper, and their true size and relation to near objects cannot be exhibited unless they are painted in the palest tones. Yet, as compared with their snow, they are so dark that a daguerreotype taken for the proper number of seconds to draw the snow shadows rightly, will always represent the rocks as *coal-black*. In order, therefore, to paint a snowy mountain properly, we should need a light as much brighter than white paper as white paper is brighter than charcoal. So that although it is possible, with deep blue sky, and purple rocks, and blue shadows, to obtain a very interesting resemblance of snow effect, and a true one up to a certain point, (as in the best examples of the body-colour drawings sold so extensively in Switzerland), it is not possible to obtain any of those refinements of form and gradation which a great artist's eye requires. Turner felt that, among these highest hills, no serious or perfect work could be done; and although in one or two of his vignettes (already referred to in the first volume) he showed his knowledge of them, his practice, in larger works, was always to treat the snowy mountains merely as a far-away white cloud, concentrating the interest of his picture on nearer and more tractable objects.



§ 19. One circumstance, however, bearing upon art, we may note before leaving these upper precipices, namely, the way in which they illustrate the favourite expression of Homer and Dante — *cut* rocks. However little satisfied we had reason to be with the degree of affection shown towards mountain scenery by either poet, we may now perceive, with some respect and surprise, that they had got at one character which was in the essence of the noblest rocks, just as the early illuminators got at the principles which lie at the heart of vegetation. As distinguished from all other natural forms, — from fibres which are torn, crystals which are broken, stones which are rounded or worn, animal and vegetable forms which are grown or moulded, — the true hard rock or precipice is notably a thing *cut*, its inner *grain* or structure seeming to have less to do with its form than is seen in any other object or substance whatsoever; and the aspect of subjection to some external sculpturing instrument being distinct in almost exact proportion to the size and stability of the mass.

§ 20. It is not so, however, with the next groups of mountain which we have to examine — those formed by the softer slaty coherents, when their perishable and frail substance has been raised into cliffs in the manner illustrated by the figure at p. 149., — cliffs whose front every frost disorganizes into filmy shale, and of which every thunder-shower dissolves tons in the swoln blackness of torrents. If this takes place from the top downwards, the cliff is gradually effaced, and a more or less rounded eminence is soon all that remains of it; but if the lower beds only decompose, or if the whole structure is strengthened here and there by courses of harder rock, the precipice is undermined, and remains hanging in perilous ledges and projections until, the process having reached the limit of its strength, vast portions of it fall at once, leaving new fronts of equal ruggedness, to be ruined and cast down in their turn.

The whole district of the northern inferior Alps, from the mountains of the Réposoir to the Gemmi, is full of precipices of this kind; the well-known crests of the Mont Doron, and of the Aiguille de Varens, above Sallanches, being connected by the great cliffs of the valley of Sixt, the dark mass of the Buet, the

Dent du Midi de Bex, and the Diablerets, with the great amphitheatre of rock in whose securest recess the path of the Gemmi hides its winding. But the most frightful and most characteristic cliff in the whole group is the range of the Rochers des Fys, above the Col d'Anterne. It happens to have a bed of harder limestone at the top than in any other part of its mass; and this bed, protecting its summit, enables it to form itself into the most ghastly ranges of pinnacle which I know among mountains. In one spot the upper ledge of limestone has formed a complete cornice, or rather bracket—for it is not extended enough to constitute a cornice, which projects far into the air over the wall of ashy rock, and is seen against the clouds, when they pass into the chasm beyond, like the nodding coping-stone of a castle—only the wall below is not less than 2500 feet in height,—not vertical, but steep enough to seem so to the imagination.

- § 21. Such precipices are among the most impressive as well as the most really dangerous of mountain ranges; in many spots inaccessible with safety either from below or from above; dark in colour, robed with everlasting mourning, for ever tottering like a great fortress shaken by war, fearful as much in their weakness as in their strength, and yet gathered after every fall into darker frowns and unhumiliated threatening; for ever incapable of comfort or of healing from herb or flower, nourishing no root in their crevices, touched by no hue of life on buttress or ledge, but, to the utmost, desolate; knowing no shaking of leaves in the wind, nor of grass beside the stream,—no motion but their own mortal shivering, the deathful crumbling of atom from atom in their corrupting stones; knowing no sound of living voice or living tread, cheered neither by the kid's bleat nor the marmot's cry; haunted only by uninterpreted echoes from far off, wandering hither and thither among their walls, unable to escape, and by the hiss of angry torrents, and sometimes the shriek of a bird that flits near the face of them, and sweeps frightened back from under their shadow into the gulph of air: and, sometimes, when the echo has faded, and the wind has carried the sound of the torrent away, and the bird has vanished, and the mouldering stones are still for a little time,—a brown moth, opening and

shutting its wings upon a grain of dust, may be the only thing that moves, or feels, in all the waste of weary precipice, darkening five thousand feet of the blue depth of heaven.

§ 22. It will not be thought that there is nothing in a scene such as this deserving our contemplation, or capable of conveying useful lessons, if it were fitly rendered by art. I cannot myself conceive any picture more impressive than a faithful rendering of such a cliff would be, supposing the aim of the artist to be the utmost tone of sad sublime. I am, nevertheless, aware of no instance in which the slightest attempt has been made to express their character; the reason being, partly, the extreme difficulty of the task, partly the want of temptation in specious colour or form. For the majesty of this kind of cliff depends entirely on its size: a low range of such rock is as uninteresting as it is ugly; and it is only by making the spectator understand the enormous scale of their desolation, and the space which the shadow of their danger oppresses, that any impression can be made upon his mind. And this scale cannot be expressed by any artifice; the mountain cannot be made to look large by painting it blue or faint, otherwise it loses all its ghastliness. It must be painted in its own near and solemn colours, black and ashen grey; and its size must be expressed by thorough drawing of its innumerable details — pure *quantity*, — with certain points of comparison explanatory of the whole. This is no light task; and, attempted by any man of ordinary genius, would need steady and careful painting for three or four months; while, to such a man, there would appear to be nothing worth his toil in the gloom of the subject, unrelieved as it is even by variety of form; for the soft rock of which these cliffs are composed rarely breaks into bold masses; and the gloom of their effect partly depends on its not doing so.

§ 23. Yet, while painters thus reject the natural, and large sublime, which is ready to their hand, how strangely do they seek after a false and small sublime. It is not that they reprobate gloom, but they will only have a gloom of their own making; just as half the world will not see the terrible and sad truths which the universe is full of, but surrounds itself with little clouds of sulky and unnecessary fog for its own special breathing.

A portrait is not thought grand unless it has a thunder-cloud behind it (as if a hero could not be brave in sunshine); a ruin is not melancholy enough till it is seen by moonlight or twilight; and every condition of theatrical pensiveness or of the theatrical terrific is exhausted in setting forth scenes or persons which in themselves are, perhaps, very quiet scenes and homely persons; while that which, without any accessories at all, is everlastingly melancholy and terrific, we refuse to paint,—nay, we refuse even to observe it in its reality, while we seek for the excitement of the very feelings it was meant to address, in every conceivable form of our false ideal.

For instance: there have been few pictures more praised for their sublimity than the “Deluge” of Nicolas Poussin; of which, nevertheless, the sublimity, such as it is, consists wholly in the painting of everything grey and brown,—not the grey and brown of great painters, full of mysterious and unconfessed colours, dim blue, and shadowy purple, and veiled gold,—but the stony grey and dismal brown of the conventionalist. Madame de Genlis, whose general criticisms on painting are full of good sense—singularly so, considering the age in which she lived<sup>1</sup>—has the following passage on this picture:—

“‘I remember to have seen the painting you mention; but I own I found nothing in it very beautiful.’

“‘You have seen it rain often enough?’

“‘Certainly.’

“‘Have you ever at such times observed the colour of the clouds attentively?—how the dusky atmosphere obscures all objects, makes them, if distant, disappear, or be seen with difficulty? Had you paid a proper attention to these effects of rain, you would have been amazed by the exactitude with which they are painted by Poussin.’”<sup>2</sup>

§ 24. Madame de Genlis is just in her appeal to nature, but had not herself looked carefully enough to make her appeal accurate. She

<sup>1</sup> I ought before to have mentioned Madame de Genlis as one of the few writers whose influence was always exerted to restore to truthful feelings, and persuade to simple enjoyments and pursuits, the persons accessible to reason in the frivolous world of her times.

<sup>2</sup> *Veillées du Château*, vol. ii.

had noticed one of the principal effects of rain, but not the other. It is true that the dusky atmosphere "obscures all objects," but it is also true that Nature, never intending the eye of man to be without delight, has provided a rich compensation for this shading of the tints with *darkness*, in their brightening by *moisture*. Every colour, wet, is twice as brilliant as it is when dry; and when distances are obscured by mist, and bright colours vanish from the sky, and gleams of sunshine from the earth, the foreground assumes all its loveliest hues, the grass and foliage revive into their perfect green, and every sunburnt rock glows into an agate. The colours of mountain foregrounds can never be seen in perfection unless they are wet; nor can *moisture be entirely expressed except by fulness of colour*. So that Poussin, in search of a false sublimity, painting every object in his picture, vegetation and all, of one dull grey and brown, has actually rendered it impossible for an educated eye to conceive it as representing rain at all: it is a dry, volcanic darkness. It may be said, that had he painted the effect of rain truly, the picture, composed of the objects he has introduced, would have become too pretty for his purpose. But his error, and the error of landscapists in general, is in seeking to express terror by false treatment, instead of going to Nature herself to ask her what she has appointed to be everlastingly terrible. The greatest genius would be shown by taking the scene in its plainest and most probable facts; not seeking to change pity into fear, by denying the beauty of the world that was passing away. But if it were determined to excite fear, and fear only, it ought to have been done by imagining the true ghastliness of the tottering cliffs of Ararat or Caucasus, as the heavy waves first smote against the promontories that until then had only known the thin fanning of the upper air of heaven; — not by painting leaves and grass slate-grey. And a new world of sublimity might be opened to us, if any painter of power and feeling would devote himself, for a few months, to these solemn cliffs of the dark limestone Alps, and would only paint one of them, as it truly stands, not in rain nor storm, but in its own eternal sadness: perhaps best on some fair summer evening, when its fearful veil of immeasurable rock is breathed upon by warm air, and touched with fading rays of purple; and all that it has

of the melancholy of ruin, mingled with the might of endurance, and the foreboding of danger, rises in its grey gloom against the gentle sky; the soft wreaths of the evening clouds expiring along its ridges one by one, and leaving it, at last, with no light but that of its own cascades, standing like white pillars here and there along its sides, motionless and soundless in their distance.

- § 25. Here, however, we must leave these more formidable examples of the Alpine precipice, to examine those which, by Turner, or by artists in general, have been regarded as properly within the sphere of their art.

Turner had in this respect some peculiar views induced by early association. It has already been noticed, in my pamphlet on Pre-Raphaelitism, that his first conceptions of mountain scenery seem to have been taken from Yorkshire; and its rounded hills, far-winding rivers, and broken limestone scars, to have formed a type in his mind to which he sought, as far as might be, to obtain some correspondent imagery in all other landscape. Hence, he almost always preferred to have a precipice *low down* on the hill-side, rather than near the top; liked an extent of rounded slope above, and the vertical cliff to the water or valley, better than the slope at the bottom and wall at the top, (compare Fig. 13. p. 151.); and had his attention early directed to those horizontal, or comparatively horizontal, beds of rock which usually form the faces of precipices in the Yorkshire dales; not, as in the Matterhorn, merely indicated by veined colouring on the surface of the smooth cliff, but projecting, or mouldering away, in definite successions of ledges, cornices, or steps.

- § 26. This decided love of the slope, or bank above the wall, rather than below it, is one of Turner's most marked idiosyncrasies, and gives a character to his composition, as distinguished from that of other men, perhaps more marked than any which are traceable in other features of it (except, perhaps, in his pear-shaped ideal of trees, of which more hereafter). For when mountains are striking to the general eye, they almost always have the high crest or wall of cliff on the *top* of their slopes, rising from the plain first in mounds of meadow-land, and bosses of rock, and studded softness of forest; the brown cottages peeping through grove above grove,





J. H. Le Boze

J. H. Le Boze

40. The Mountains of Villeneuve.







until just where the deep shade of the pines becomes blue or purple in the haze of height, a red wall of upper precipice rises from the pasture land, and frets the sky with glowing serration. Plate 40., opposite, represents a mass of mountain just above Villeneuve, at the head of the Lake of Geneva, in which the type of the structure is shown with singular clearness. Much of the scenery of western Switzerland, and characteristically the whole of that of Savoy, is composed of mountains of this kind; the isolated group between Chambéry and Grenoble, which holds the Grande Chartreuse in the heart of it, is constructed entirely of such masses; and the Montagne de Vergi, which in like manner encloses the narrow meadows and traceried cloisters of the Convent of the Réposoir, forms the most striking feature among all the mountains that border the valley of the Arve between Cluse and Geneva; while ranges of cliffs presenting precisely the same typical characters frown above the bridge and fortress of Mont-Meillan, and enclose, in light blue calm, the waters of the Lake of Annecy.

§ 27. Now, although in many of his drawings Turner acknowledges this structure, it seems always to be with some degree of reluctance; whereas he seizes with instant eagerness, and every appearance of contentment, on forms of mountain which are rounded into banks above, and cut into precipices below, as is the case in most elevated table-lands; in the chalk coteaux of the Seine, the basalt borders of the Rhine, and the lower gorges of the Alps; so that while the most striking pieces of natural mountain scenery usually rise from the plain under some such outline as that at *a*,

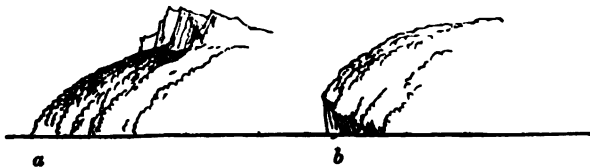


Fig. 82.

Fig. 82., Turner always formed his composition, if possible, on such an arrangement as that at *b*.

One reason for this is clearly the greater simplicity of the line.

The simpler a line is, so that it be cunningly varied *within* its simplicities, the grander it is; and Turner likes to enclose all his broken crags by such a line as that at *b*, just as we saw the classical composer, in our first plate, enclose the griffin's beak with breadth of wing. Nevertheless, I cannot but attribute his somewhat wilful and marked rejection of what sublimity there is in the other form, to the influence of early affections; and sincerely regret that the fascination exercised over him by memory should have led him to pass so much of his life in putting a sublimity not properly belonging to them into the coteaux of Clairmont and Meauves, and the vine terraces of Bingen and Oberwesel; leaving almost unrecorded the natural sublimity, which he could never have exaggerated, of the pine-fringed mountains of the Isere, and the cloudy diadem of the Mont Vergi.

§ 28. In all cases of this kind, it is difficult to say how far harm and how far good have resulted from what unquestionably has in it something of both. It is to be regretted that Turner's studies should have been warped, by early affection, from the Alps to the Rhine; but the fact of his *feeling* this early affection, and being thus strongly influenced by it through his life, is indicative of that sensibility which was at the root of all his greatness. Other artists are led away by foreign sublimities and distant interests; delighting always in that which is most markedly strange, and quaintly contrary to the scenery of their homes. But Turner evidently felt that the claims upon his regard possessed by those places which first had opened to him the joy, and the labour, of his life, could never be superseded; no Alpine cloud could efface, no Italian sunbeam outshine, the memory of the pleasant dales and days of Rokeby and Bolton; and many a simple promontory, dim with southern olive,—many a low cliff that stooped unnoticed over some alien wave, was recorded by him with a love, and delicate care, that were the shadows of old thoughts and long-lost delights, whose charm yet hung like morning mist above the chanting waves of Wharfe and Greta.

§ 29. The first instance, therefore, of Turner's mountain drawing which I endeavoured to give accurately, in this book, was from those shores of Wharfe which, I believe, he never could revisit

without tears; nay, which for all the latter part of his life, he never could even speak of, but his voice faltered. We will now examine this instance with greater care.

It is first to be remembered that in every one of his English or French drawings, Turner's mind was, in two great instincts, at variance with itself. The *affections* of it clung, as we have just seen, to humble scenery, and gentle wildness of pastoral life. But the *admiration* of it was, more than any other artist's whatsoever, fastened on largeness of scale. With all his heart, he was attached to the narrow meadows and rounded knolls of England; by all his imagination he was urged to the reverence of endless vales and measureless hills; nor could any scene be too contracted for his love, or too vast for his ambition. Hence, when he returned to English scenery after his first studies in Savoy and Dauphiné, he was continually endeavouring to reconcile old fondnesses with new sublimities; and, as in Switzerland he chose rounded Alps for the love of Yorkshire, so in Yorkshire he exaggerated scale, in memory of Switzerland, and gave to Ingleborough, seen from Hornby Castle, in great part the expression of cloudy majesty and height which he had seen in the Alps from Grenoble. We must continually remember these two opposite instincts as we examine the Turnerian topography of his subject of Bolton Abbey.

§ 80. The Abbey is placed, as most lovers of our English scenery know well, on a little promontory of level park land, enclosed by one of the sweeps of the Wharfe. On the other side of the river, the flank of the dale rises in a pretty wooded brow, which the river, leaning against, has out into two or three somewhat bold masses of rock, steep to the water's edge, but feathered above with copse of ash and oak. Above these rocks, the hills are rounded softly upwards to the moorland; the entire height of the brow towards the river being perhaps two hundred feet, and the rocky parts of it not above forty or fifty, so that the general impression upon the eye is that the hill is little more than twice the height of the ruins, or of the groups of noble ash trees which encircle them. One of these groups is conspicuous above the rest, growing on the very shore of the tongue of land which projects

into the river, whose clear brown water, stealing first in mere threads between the separate pebbles of shingle, and eddying in soft golden lines towards its central currents, flows out of amber into ebony, and glides calm and deep below the rock on the opposite shore.

§ 31. Except in this stony bed of the stream, the scene possesses very little more aspect of mountain character than belongs to some of the park and meadow land under the chalk hills near Henley and Maidenhead; and if it were faithfully drawn in all points, and on its true scale, would hardly more affect the imagination of the spectator, unless he traced, with such care as is never from any spectator to be hoped, the evidence of nobler character in the pebbled shore and unobtrusive rock. But the scene in reality does affect the imagination strongly, and in a way wholly different from lowland hill scenery. A little farther up the valley the limestone summits rise, and that steeply, to a height of twelve hundred feet above the river, which foams between them in the narrow and dangerous channel of the Strid. Noble moorlands extend above, purple with heath, and broken into scars and glens, and around every soft tuft of wood, and gentle extent of meadow, throughout the dale, there floats a feeling of this mountain power, and an instinctive apprehension of the strength and greatness of the wild northern land.

§ 32. It is to the association of this power and border sternness with the sweet peace and tender decay of Bolton Priory, that the scene owes its distinctive charm. The feelings excited by both characters are definitely connected by the melancholy tradition of the circumstances to which the Abbey owes its origin; and yet farther darkened by the nearer memory of the death, in the same spot which betrayed the boy of Egremont, of another, as young, as thoughtless, and as beloved.

"The stately priory was reared,  
And Wharfe, as he moved along,  
To matins joined a mournful voice,  
Nor failed at evensong."

All this association of various awe, and noble mingling of





J. M. W. Turner

Thos. Agnew

12.A. The Shores of Wharfe.







mountain strength with religious fear, Turner had to suggest, or he would not have drawn Bolton Abbey. He goes down to the shingly shore; for the Abbey is but the child of the Wharfe; — it is the river, the great cause of the Abbey, which shall be his main subject; only the extremity of the ruin itself is seen, between the stems of the ash trees; but the waves of the Wharfe are studied with a care which renders this drawing unique among Turner's works, for its expression of the eddies of a slow mountain stream, and of their pausing in treacherous depth beneath the hollowed rocks.

On the opposite shore is a singular jutting angle of the shales, forming the principal feature of the low cliffs at the water's edge. Turner fastens on it as the only available mass; draws it with notable care, and then magnifies it, by diminishing the trees on its top to one fifth of their real size, so that what would else have been little more than a stony bank becomes a true precipice, on a scale completely suggestive of the heights behind. The hill beyond is in like manner lifted into a more rounded, but still precipitous, eminence, reaching the utmost admissible elevation of ten or twelve hundred feet (measurable by the trees upon it). I have engraved this entire portion of the drawing of the real size, on the opposite page; the engraving of the whole drawing, published in the England Series, is also easily accessible.

- § 33. Not knowing accurately to what group of the Yorkshire limestones the rocks opposite the Abbey belonged, or their relation to the sandstones at the Strid, I wrote to ask my kind friend Professor Phillips, who instantly sent me a little geological sketch of the position of these "Yoredale Shales," adding this interesting note: "The black shales opposite the Abbey are curiously tinted at the surface, and are contorted. Most artists give them the appearance of solid massive rocks; nor is this altogether wrong, especially when the natural joints of the shale appear prominent after particular accidents; they should, however, never be made to resemble [i. e. in solidity] limestone or gritstone."

Now, the Yoredale shales are members of the group of

rocks which I have called slaty coherent, and correspond very closely to those portions of the Alpine slates described in Chapter x. § 4.; their main character is continual separation into fine flakes, more or less of Dante's "iron-coloured grain;" which, however, on a large scale, form those somewhat solid-looking masses to which Mr. Phillips alludes in his letter, and which he describes, in his recently published *Geology*, in the following general terms: "The shales of this tract are usually dark, close, and fissile, and traversed by extremely long straight joints, dividing the rock into rhomboidal prisms" (i. e. prisms of the shape *c*, Fig. 83., in the section).

§ 34. Turner had, therefore, these four things to show: — 1. Flaky division horizontally; 2. Division by rhomboidal joints; 3. Massy appearance occasionally, somewhat concealing the structure; 4. Local contortion of the beds. (See passage quoted of Mr. Phillips's letter.)

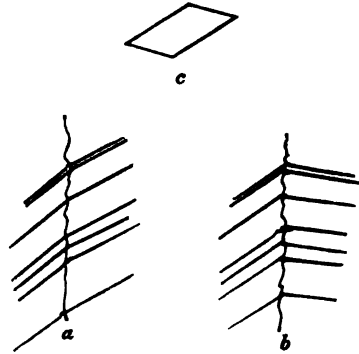


Fig. 83.

Examine, then, the plate just given (12 A.). The cleavage of the shales runs diagonally up from left to right; note especially how delicately it runs up through the foreground rock, and is insisted upon, just at the brow of it, in the angular step-like fragments; compare also the etching in the first volume. Then note the upright pillars in the distance, marked especially as rhomboidal by being drawn with the cleavage still sloping up on the returning side, as at *a*, Fig. 83., not as at *b*, which would be their aspect if they were square; and then the indication of interruption in the structure at the brow of the main cliff, where, as well as on the nearer mass, exposure to the weather has rounded away the cleavages.

This projection, as before mentioned, does exist at the spot; and I believe is partly an indication of the contortion in the beds

alluded to by Mr. Phillips; but no one but Turner would have fastened on it, as in anywise deserving special attention.

For the rest, no words are of any use to explain the subtle fidelity with which the minor roundings and cleavages have been expressed by him. Fidelity of this kind can only be estimated by workers: if the reader can himself draw a bit of natural precipice in Yoredale shale, and then copy a bit of the etching, he will find some measure of the difference between Turner's work and other people's, and no otherwise; although, without any such labour, he may at once perceive that there *is* a difference, and a wide one, — so wide, that I have literally nothing to compare the Turnerian work with in previous art. Here, however, Fig. 84., is a rock of Claude's (*Liber Veritatis*, No. 91., on the left-hand), which is something of the shape of Turner's, and professes to be crested in like manner with copse-wood. The reader may "compare" as much as he likes, or can, of it.



Fig. 84.

§ 35. In fact, as I said some time ago, the whole landscape of Claude was nothing but a more or less softened continuance of the old traditions of missal-painting, of which I gave examples in the previous volume. The general notion of rock which may be traced in the earliest work, as Figs. 1. and 2. in Plate 10. Vol. III., is of an upright mass cut out with an adze; as art advances, the painters begin to perceive horizontal stratification, and, as in all the four other examples of that plate, show something like true rendering of the fracture of rocks in vertical joints with superimposed projecting masses. They insist on this type, thinking it frowning or picturesque, and usually exhibit it to more advantage by putting a convent, hermitage, or castle on the projection of the crag. In the blue backgrounds of the missals the projection is often wildly extravagant;

for instance, the MS. Additional, 11,696. Brit. Mus., has all its backgrounds composed of blue rocks with towers upon them, of which Fig. 85. is a characteristic example (magnified in scale about one third; but, I think, rather diminished in extravagance of projection). It is infinitely better drawn than Claude's rocks ever



Fig. 85.

are, in the expression of cleavage; but certainly somewhat too bold in standing. Then, in more elaborate work, we get conditions of precipice like Fig. 3. in Plate 10., which, indeed, is not ill-drawn in many respects; and the book from which it is taken shows other evidences of a love of nature sufficiently rare at the period, though joined quaintly with love of the grotesque: for instance, the writer, giving an account of the natural productions of Saxony, illustrates his chapter with a view of the salt-mines; he represents the brine-spring, conducted by a wooden trough from the rock into an evaporating-house, where it is received in a pan, under which he has painted scarlet flames of fire with singular skill; and the rock out of which the brine flows is in its general cleavages the best I ever saw drawn by mediæval art. But it is carefully wrought to the resemblance of a grotesque human head.



Fig. 86.

- § 36. This bolder quaintness of the missals is very slightly modified in religious paintings of the period. Fig. 86., by Cima da Conegliano, a Venetian, No. 173. in the Louvre, compared with Fig. 3. of Plate 10. (Flemish), will show the kind of received tradition about rocks current throughout Europe. Claude takes up this tradition, and, merely making the rocks a little clumsier, and more weedy, produces such conditions as Fig. 87. (*Liber Veritatis*, No. 91., with Fig. 84. above); while the orthodox door or archway at the bottom is developed into the Homeric cave, shaded with laurels, and some ships are put underneath it, or seen through it, at impossible anchorages.



Fig. 87.

- § 37. Fig. 87. is generally characteristic, not only of Claude, but of the other painters of the Renaissance period, because they were all equally fond of representing this overhanging of rocks with buildings on the top, and weeds drooping into the air over the edge, always thinking to get sublimity by exaggerating the projection, and never able to feel or understand the simplicity of

real rock lines: not that they were in want of examples around them; on the contrary, though the main idea was traditional, the modifications of it are always traceable to the lower masses of limestone and tufa which skirt the Alps and Apennines, and which have, in reality, long contracted habits of nodding over their bases; being, both by Virgil and Homer, spoken of always as "hanging" or "over-roofed" rocks. But then they have a way of doing it rather different from the Renaissance ideas of them. Here, for instance (Plate 41.), is a real hanging rock, with a castle on the top of it, and (*κατηρεφής*) laurel, all plain fact, from Arona, on the Lago Maggiore; and, I believe, the reader, though we have not as yet said anything about lines, will at once, on comparing it with Fig. 87., recognise the difference between the true parabolic flow of the rock-lines and the humpbacked deformity of Claude; and, still more, the difference between the delicate overhanging of the natural cliff, cautiously diminished as it gets higher<sup>1</sup>, and the ideal danger of the *Liber Veritatis*.

§ 38. And the fact is, generally, that natural cliffs are very cautious how they overhang, and that the artist who represents them as doing so in any extravagant degree entirely destroys the sublimity which he hoped to increase, for the simple reason that he takes away the whole rock-nature, or at least that part of it which depends upon weight. The instinct of the observer refuses to believe that the rock is ponderous when it overhangs so far, and it has no more real effect upon him than the imagined rocks of a fairy tale.

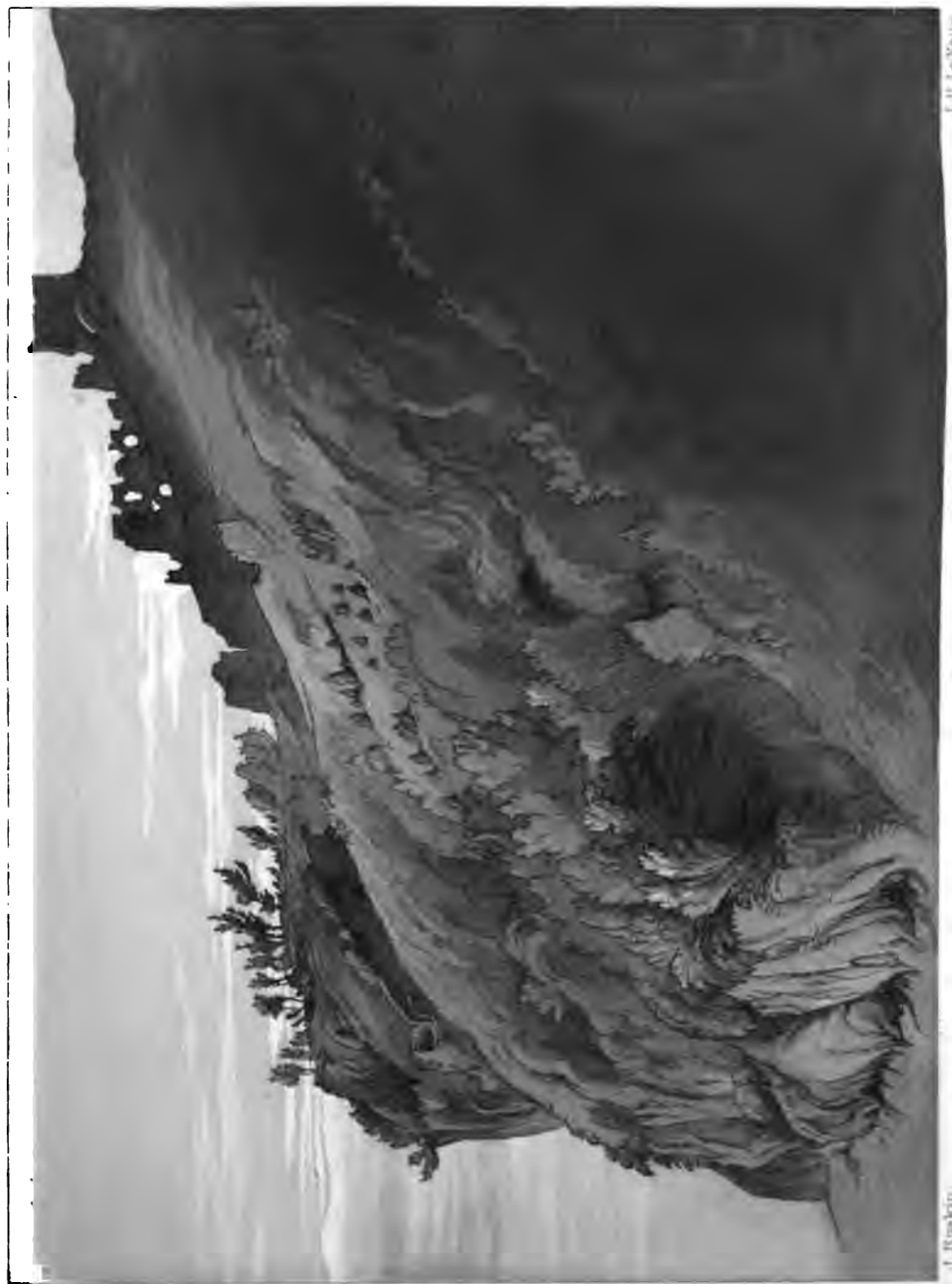
Though, therefore, the subject sketched opposite is sufficiently trifling in itself, it is important as a perfect general type of the overhanging of that kind of precipices, and of the mode in which they are connected with the banks above. Fig. 88. shows its abstract leading lines, consisting of one great parabolic line  $x y$  falling to the brow, curved aqueous lines down the precipice face, and the springing lines of its vegetation, opposed by contrary curves on the farther cliff. Such an arrangement, with

<sup>1</sup> The actual extent of the projection remaining the same throughout, the angle of suspended slope, for that very reason, diminishes as the cliff increases in height.









J. H. Le Sueur

J. Ruskin

41. The Rock of Arona.



or without vegetation, may take place on a small or large scale; but a bolder projection than this, except by rare accident, and on a small scale, cannot. If the reader will glance back to Plate 37.,



Fig. 88.

and observe the arrangement of the precipices on the right hand, he will now better understand what Turner means by them. But the whole question of the beauty of this form, or mode of its development, rests on the nature of the bank above the cliffs, and of the aqueous forces that carved it; and this discussion of the nature of banks, as it will take some time, had better be referred to next chapter. One or two more points are, however, to be stated here.

§ 39. For the reader has probably been already considering how it is

that these overhanging cliffs are formed at all, and why they appear thus to be consumed away at the bottom. Sometimes, if of soft material, they actually *are* so consumed by the quicker trickling of streamlets at the base than at the summit, or by the general action of damp in decomposing the rock. But, in the noblest instances, such cliffs are constructed as at *c* in Fig. 73. above, and the inward retirement of the precipice is the result of their tendency to break at right angles to the beds, modified according to the power of the rock to support itself, and the aqueous action from above or below.

I have before alluded (in p. 161.) to this somewhat perilous arrangement permitted in the secondary strata. The danger, be it observed, is not of the fall of the *brow* of the precipice, which never takes place on a large scale in rocks of this kind (compare § 3. of this chapter), but of the sliding of one bed completely away from another, and the whole mass coming down together. But even this, though it has several times occurred in Switzerland, is not a whit more likely to happen when the precipice is terrific than when it is insignificant. The danger results from the imperfect adhesion of the mountain beds; not at all from the external form of them. A cliff, which is in aspect absolutely awful, may hardly, in the part of it that overhangs, add one thousandth part to the gravitating power of the entire mass of the rocks above; and, for the comfort of nervous travellers, they may be assured that they are often in more danger under the gentle slopes of a pleasantly wooded hill, than under the most terrific cliffs of the Eiger or Jungfrau.

- § 40. The most interesting examples of these cliffs are usually to be seen impendent above strong torrents, which, if forced originally to run in a valley, such as *a* in Fig. 89., bearing the relation there shown to the inclination of beds on each side, will not, if the cleavage is across the beds, cut their channels straight down, but in an inclined direction, correspondent to the cleavage, as at *b*. If the operation be carried far, so as to undermine one side of the ravine too seriously, the undermined masses fall, partially choke the torrent, and give it a new direction of force, or diminish its sawing power by breaking it among

the fallen masses, so that the cliff never becomes very high in such an impendent form; but the trench is hewn downwards in



Fig. 89.

a direction irregularly vertical. Among the limestones on the north side of the Valais, they being just soft enough to yield easily to the water, and yet so hard as to maintain themselves in massy precipices, when once hewn to the shape, there are defiles of whose depth and proportions I am almost afraid to state what I believe to be the measurements, so much do they differ from any which I have seen assigned by scientific men as the limits of precipitous formation. I can only say that my deliberate impression of the great ravine cut by the torrent which descends from the Aletsch glacier, about half way between the glacier and Brieg, was, that its depth is between a *thousand and fifteen hundred* feet, by a breadth of between *forty and a hundred*.

But I could not get to the edge of its cliffs, for the tops rounded away into the chasm, and, of course, all actual measurement was impossible. There are other similar clefts between the Bietschhorn and the Gemmi; and the one before spoken of at Ardon, about five miles below Sion, though quite unimportant in comparison, presents some boldly overhanging precipices, easily observed by the passing traveller, as they are close to the road. The glen through which the torrent of the Trient descends into the valley of the Rhone, near Martigny, though not above three or four hundred feet deep, is also notable for its narrowness, and for the magnificent hardness of the rock through which it is cut,—a gneiss twisted with quartz into undulations like those of a Damascus sabre, and as compact as its steel.

§ 41. It is not possible to get the complete expression of these

ravines, any more than of the apse of a Gothic cathedral, into a picture, as their elevation cannot be drawn on a vertical plane in front of the eye, the head needing to be thrown back, in order to measure their height, or stooped, to penetrate their depth. But the structure and expression of the entrance to one of them have been made by Turner the theme of his sublime mountain-study (Mill near the Grande Chartreuse) in the *Liber Studiorum*; nor does he seem ever to have been weary of recurring, for various precipice-subject, to the ravines of the Via Mala and St. Gothard. I will not injure any of these — his noblest works — by giving imperfect copies of them; the reader has now data enough whereby to judge, when he meets with them, whether they are well done or ill; and, indeed, all that I am endeavouring to do here, as often aforesaid, is only to get some laws of the simplest kind understood and accepted, so as to enable people who care at all for justice to make a stand at once beside the modern mountain-drawing, as distinguished from Salvator's, or Claude's, or any other spurious work. Take, for instance, such a law as this of the general oblique inclination of a torrent's sides, Fig. 89., and compare the Turnerian gorge in the distance of Plate 21. here, or of the Grande Chartreuse subject in the *Liber Studiorum*, and consider whether anywhere else in art you can find similar expressions of the law.

- § 42. “Well; but you have come to no conclusions in this chapter respecting the Beauty of Precipices; and that was your professed business with them.”

I am not sure that the idea of beauty was meant in general to be very strictly connected with such mountain forms: one does not, instinctively, speak or think of a “Beautiful Precipice.” They have, however, their beauty, and it is infinite; yet so dependent on help or change from other things, on the way the pines crest them, or the waterfalls colour them, or the clouds isolate them, that I do not choose to dwell here on any of their perfect aspects, as they cannot be reasoned of but by anticipating inquiries into other materials of landscape.

Thus, I have much to say of the cliffs of Grindelwald and the Chartreuse, but all so dependent upon certain facts belonging to



pine vegetation, that I am compelled to defer it to the next volume: nor do I much regret this; because it seems to me that, without any setting forth, or rather beyond all setting forth, the Alpine precipices have a fascination about them which is sufficiently felt by the spectator in general, and even by the artist; only they have not been properly drawn, because people do not usually attribute the magnificence of their effect to the trifling details which really are its elements; and, therefore, in common drawings of Swiss scenery we see all kinds of efforts at sublimity by exaggeration of the projection, or of the mass, or by obscurity, or blueness of aerial tint, — by everything, in fact, except the one needful thing, — plain drawing of the rock. Therefore in this chapter I have endeavoured to direct the reader to a severe mathematical estimate of precipice outline, and to make him dwell, not on the immediately pathetic or impressive aspect of cliffs, which all men feel readily enough, but on their internal structure. For he may rest assured that, as the Matterhorn is built out of mica flakes, so every great pictorial impression in scenery of this kind is to be reached by little and little; the cliff must be built in the picture as it was probably in reality — inch by inch; and the work will, in the end, have most power which was begun with most patience. No man is fit to paint Swiss scenery until he can place himself front to front with one of those mighty crags, in broad daylight, with no “effect” to aid him, and work it out, boss by boss, only with such conventionality as its infinitude renders unavoidable. We have seen that a literal fac-simile is impossible, just as a literal fac-simile of the carving of an entire cathedral front is impossible. But it is as vain to endeavour to give any conception of an Alpine cliff without minuteness of detail, and by mere breadth of effect, as it would be to give a conception of the façades of Rouen or Rheims, without indicating any statues or foliation. When the statues and foliation are once got, as much blue mist and thundercloud as you choose, but not before.

§ 43. I commend, therefore, in conclusion, the precipice to the artist's *patience*; to which there is this farther and final encouragement,

that, though one of the most difficult of subjects, it is one of the kindest of sitters. A group of trees changes the colour of its leafage from week to week, and its position from day to day; it is sometimes languid with heat, and sometimes heavy with rain; the torrent swells or falls in shower or sun; the best leaves of the foreground may be dined upon by cattle, or trampled by unwelcome investigators of the chosen scene. But the cliff can neither be eaten, nor trampled down; neither bowed by the shower, nor withered by the heat: it is always ready for us when we are inclined to labour; will always wait for us when we would rest; and, what is best of all, will always talk to us when we are inclined to converse. With its own patient and victorious presence, cleaving daily through cloud after cloud, and reappearing still through the tempest drift, lofty and serene amidst the passing rents of blue, it seems partly to rebuke, and partly to guard, and partly to calm and chasten, the agitations of the feeble human soul that watches it; and that must be indeed a dark perplexity, or a grievous pain, which will not be in some degree enlightened or relieved by the vision of it, when the evening shadows are blue on its foundation, and the last rays of the sunset resting on the fair height of its golden Fortitude.

## CHAPTER XVII.

## RESULTING FORMS:—FOURTHLY, BANKS.

- § 1. DURING all our past investigations of hill form, we have been obliged to refer continually to certain results produced by the action of descending streams or falling stones. The actual contours assumed by any mountain range towards its foot depend usually more upon this torrent sculpture than on the original conformation of the masses; the existing hill side is commonly an accumulation of debris; the existing glen commonly an excavated watercourse; and it is only here and there that portions of rock, retaining impress of their original form, jut from the bank, or shelve across the stream.
- § 2. Now this sculpture by streams, or by gradual weathering, is the finishing work by which Nature brings her mountain forms into the state in which she intends us generally to observe and love them. The violent convulsion or disruption by which she first raises and separates the masses may frequently be intended to produce impressions of terror rather than of beauty; but the laws which are in constant operation on all noble and enduring scenery must assuredly be intended to produce results grateful to men. Therefore, as in this final pencilling of Nature's we shall probably find her ideas of mountain beauty most definitely expressed, it may be well that, before entering on this part of our subject, we should recapitulate the laws respecting beauty of form which we arrived at in the abstract.
- § 3. Glancing back to the fourteenth and fifteenth paragraphs of the chapter on Infinity, in the second volume, and to the third and tenth of the chapters on Unity, the reader will find that

abstract beauty of form is supposed to depend on continually varied curvatures of line and surface, associated so as to produce an effect of some unity among themselves, and opposed, in order to give them value, by more or less straight or rugged lines.

The reader will, perhaps, here ask why, if both the straight and curved lines are necessary, one should be considered more beautiful than the other. Exactly as we consider light beautiful and darkness ugly, in the abstract, though both are essential to all beauty. Darkness mingled with colour gives the delight of its depth or power; even pure blackness, in spots or chequered patterns, is often exquisitely delightful; and yet we do not therefore consider, in the abstract, blackness to be beautiful.

Just in the same way straightness mingled with curvature, that is to say, the close approximation of part of any curve to a straight line, gives to such curve all its spring, power, and nobleness: and even perfect straightness, limiting curves, or opposing them, is often pleasurable: yet, in the abstract, straightness is always ugly, and curvature always beautiful.

Thus, in the figure at the side, the eye will instantly prefer the semicircle to the straight line; the trefoil (composed of three semicircles) to the triangle; and the cinquefoil to the pentagon. The mathematician may perhaps feel an opposite preference; but he must be conscious that he does so under the influence of feelings quite different from those with which he would admire (if he ever does admire) a picture or statue; and that if he could free himself from those associations, his judgment of the relative agreeableness of the forms would be altered. He may rest assured that, by the natural instinct of the eye and thought, the preference is given instantly, and always, to the curved form; and that no human being of unprejudiced perceptions would desire to substitute triangles for the

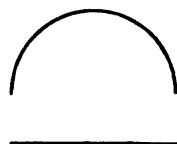


Fig. 90.

ordinary shapes of clover leaves, or pentagons for those of potentillas.

- § 4. All curvature, however, is not equally agreeable; but the examination of the laws which render one curve more beautiful than another, would, if carried out to any completeness, alone require a volume. The following few examples will, be enough to put the reader in the way of pursuing the subject for himself.

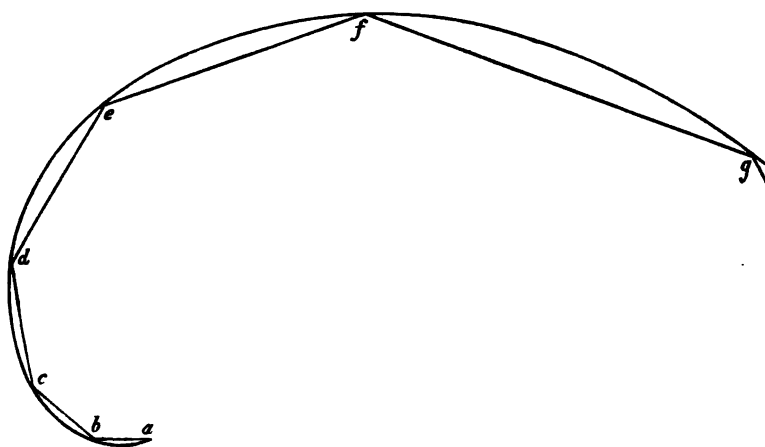


Fig. 91.

Take any number of lines,  $a b$ ,  $b c$ ,  $c d$ , &c., Fig. 91., bearing any fixed proportion to each other. In this figure,  $b c$  is one third longer than  $a b$ , and  $c d$  than  $b c$ ; and so on. Arrange them in succession, keeping the inclination, or angle, which each makes with the preceding one always the same. Then a curve drawn through the extremities of the lines will be a beautiful curve; for it is governed by consistent laws; every part of it is connected by those laws with every other, yet every part is different from every other; and the mode of its construction implies the possibility of its continuance to infinity; it would never return upon itself though prolonged for ever. These characters must be possessed by every perfectly beautiful curve.

If we make the difference between the component or measuring

lines less, as in Fig. 92., in which each line is longer than the

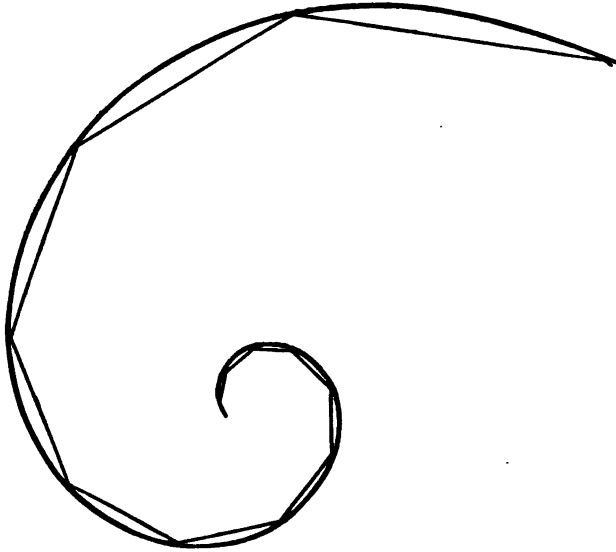


Fig. 92.

preceding one only by a fifth, the curve will be more contracted and less beautiful. If we enlarge the difference, as in Fig. 93., in which each line is double the preceding one, the curve will

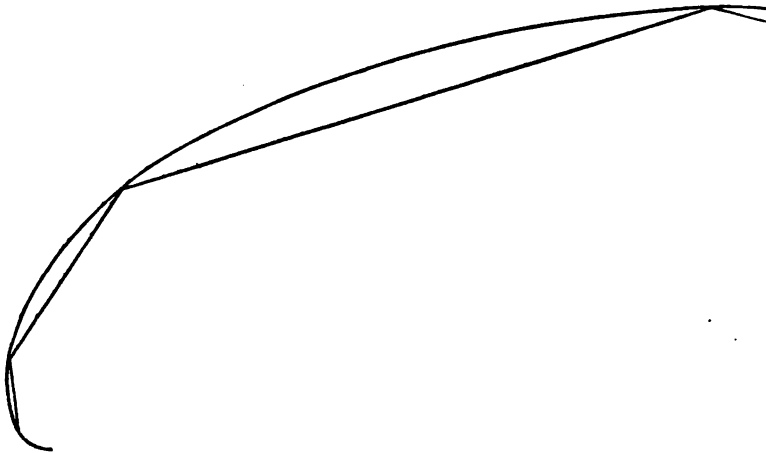


Fig. 93.

suggest a more rapid proceeding into infinite space, and will be more beautiful. Of two curves, the same in other respects, that which suggests the quickest attainment of infinity is always the most beautiful.

- § 5. These three curves being all governed by the same general law, with a difference only in dimensions of lines, together with all the other curves so constructible, varied as they may be infinitely, either by changing the lengths of line, or the inclination of the lines to each other, are considered by mathematicians only as one curve, having this peculiar character about it, different from that of most other infinite lines, that any portion of it is a magnified repetition of the preceding portion; that is to say, the portion between  $e$  and  $g$  is precisely what that between  $c$  and  $e$  would look, if seen through a lens which magnified somewhat more than twice. There is therefore a peculiar equanimity and harmony about the look of lines of this kind, differing, I think, from the expression of any others except the circle. Beyond the point  $a$  the curve may be imagined to continue to an infinite degree of smallness, always circling nearer and nearer to a point, which, however, it can never reach.
- § 6. Again: if along the horizontal line,  $AB$ , Fig. 94. over leaf, we measure any number of equal distances,  $A b, b c$ , &c., and raise perpendiculars from the points  $b, c, d$ , &c., of which each perpendicular shall be longer, by some given proportion (in this figure it is one third), than the preceding one, the curve  $xy$ , traced through their extremities, will continually change its direction, but will advance into space in the direction of  $y$  as long as we continue to measure distances along the line  $AB$ , always inclining more and more to the nature of a straight line, yet never becoming one, even if continued to infinity. It would, in like manner, continue to infinity in the direction of  $x$ , always approaching the line  $AB$ , yet never touching it.
- § 7. An infinite number of different lines, more or less violent in curvature according to the measurements we adopt in designing them, are included, or defined, by each of the laws just explained. But the number of these laws themselves is also infinite. There is no limit to the multitude of conditions which may be invented,

each producing a group of curves of a certain common nature. Some of these laws, indeed, produce single curves, which, like the circle, can vary only in size; but, for the most part, they vary also, like the lines we have just traced, in the rapidity of their curvature. Among these innumerable lines, however, there is one source of difference in character which divides them, infinite as they are in number, into two great classes. The first class consists of those which are limited in their course, either ending abruptly, or returning to some point from which they set out; the second class, of those lines whose nature is to proceed for ever into space. Any portion of a circle, for instance, is, by the law of its being, compelled, if it continue its course, to return to the point from which it set out; so also any portion of the oval curve (called an ellipse), produced by cutting a cylinder obliquely across. And if a single point be marked on the rim of a carriage wheel, this point, as the wheel rolls along the road, will trace a curve in the air from one part of the road to another, which

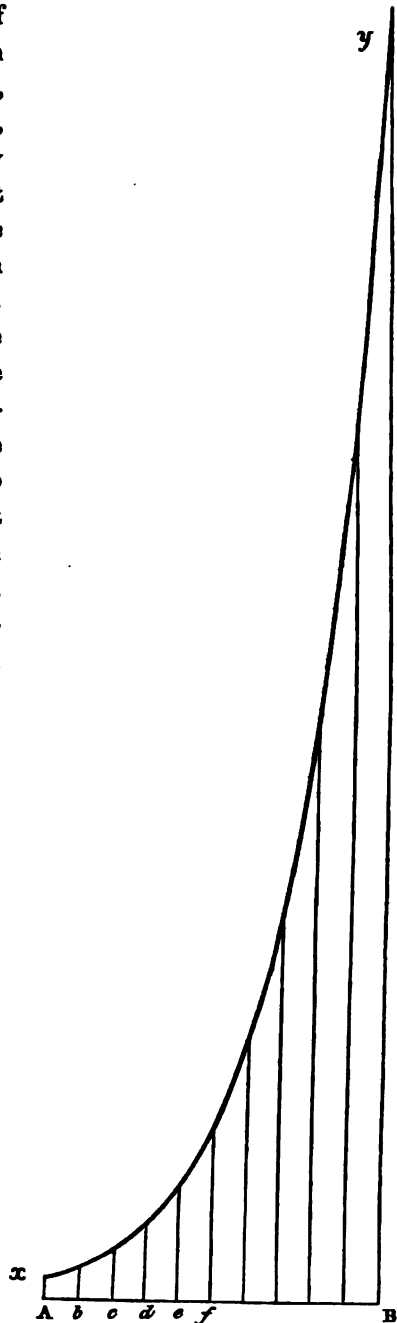


Fig. 94.



is called a cycloid, and to which the law of its existence appoints that it shall always follow a similar course, and be terminated by the level line on which the wheel rolls. All such curves are of inferior beauty: and the curves which are incapable of being completely drawn, because, as in the two cases above given, the law of their being supposes them to proceed for ever into space, are of a higher beauty.

§ 8. Thus, in the very first elements of form, a lesson is given us as to the true source of the nobleness and chooseableness of all things. The two classes of curves thus sternly separated from each other, may most properly be distinguished as the "Mortal and Immortal Curves;" the one having an appointed term of existence, the other absolutely incomprehensible and endless, only to be seen or grasped during a certain moment of their course. And it is found universally that the class to which the human mind is attached for its chief enjoyment are the Endless or Immortal lines.

§ 9. "Nay," but the reader answers, "what right have you to say that one class is more beautiful than the other? Suppose I like the finite curves best, who shall say which of us is right?"

No one. It is simply a question of experience. You will not, I think, continue to like the finite curves best as you contemplate them carefully, and compare them with the others. And if you should do so, it then yet becomes a question to be decided by longer trial, or more widely canvassed opinion. And when we find on examination that every form which, by the consent of human kind, has been received as lovely, in vases, flowing ornaments, embroideries, and all other things dependent on abstract line, is composed of these infinite curves, and that Nature uses them for every important contour, small or large, which she desires to recommend to human observance, we shall not, I think, doubt that the preference of such lines is a sign of healthy taste, and true instinct.

§ 10. I am not sure, however, how far the delightfulness of such lines is owing, not merely to their expression of infinity, but also to that of restraint or moderation. Compare Stones of Venice, vol. iii. chap. i. § 9., where the subject is entered into at

some length. Certainly the beauty of such curvature is owing, in a considerable degree, to both expressions; but when the line is sharply terminated, perhaps more to that of moderation than of infinity. For the most part, gentle or subdued sounds, and gentle or subdued colours, are more pleasing than either in their utmost force; nevertheless, in all the noblest compositions, this utmost power is permitted, but only for a short time, or over a small space. Music must rise to its utmost loudness, and fall from it; colour must be gradated to its extreme brightness, and descend from it; and I believe that absolutely perfect treatment would, in either case, permit the intensest sound and purest colour only for a point or for a moment.

Curvature is regulated by precisely the same laws. For the most part, delicate or slight curvature is more agreeable than violent or rapid curvature; nevertheless, in the best compositions, violent curvature is permitted, but permitted only over small spaces in the curve.

- § 11. The right line is to the curve what monotony is to melody, and what unvaried colour is to gradated colour. And as often the sweetest music is so low and continuous as to approach a monotone; and as often the sweetest gradations so delicate and subdued as to approach to flatness, so the finest curves are apt to hover about the right line, nearly coinciding with it for a long space of their curve; never absolutely losing their own curvilinear character, but apparently every moment on the point of merging into the right line. When this is the case, the line generally returns into vigorous curvature at some part of its course, otherwise it is apt to be weak, or slightly rigid; multitudes of other curves, not approaching the right line so nearly, remain less vigorously bent in the rest of their course; so that the quantity<sup>1</sup> of curvature is the same in both, though differently distributed.

- § 12. The modes in which Nature produces variable curves on a large scale are very numerous, but may generally be resolved into the gradual increase or diminution of some given force. Thus, if a

<sup>1</sup> Quantity of curvature is as measurable as quantity of anything else; only observe

chain hangs between two points A and B, Fig. 95., the weight of chain sustained by any given link increases gradually from the central link at C, which has only its own weight to sustain, to the link at B, which sustains, besides its own, the weight of all the links between it and C. This increased weight is continually pulling the curve of the swinging chain more nearly straight as it ascends towards B; and hence one of the most beautifully gradated natural curves—called the catenary—of course assumed not by chains only, but by all flexible and elongated substances, suspended between two points. If the points of suspension be near each other, we have such curves as at D; and if, as in nine cases out of ten will be the case, one point of suspension is lower than the other, a still more varied and beautiful curve is formed, as at E. Such curves constitute nearly the whole beauty of

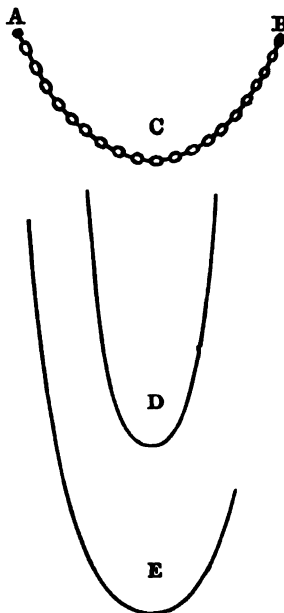


Fig. 95.

that it depends on the nature of the line, not on its magnitude: thus, in simple circular curvature,  $ab$ , Fig. 96., being the fourth of a large circle, and  $bc$  the half of a

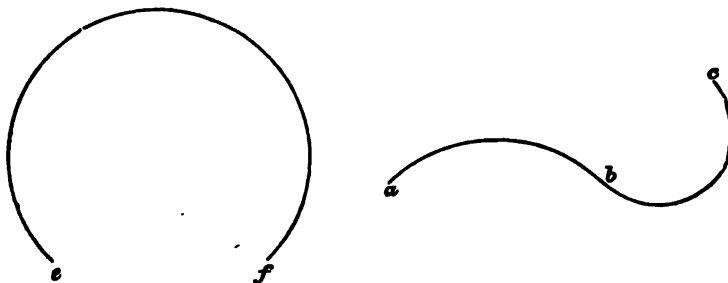


Fig. 96.

smaller one, the quantity of the element of circular curvature in the entire line  $ac$  is three fourths of that in any circle, — the same as the quantity in the line  $ef$ .

general contour in falling drapery, tendrils and festoons of weeds over rocks, and such other pendent objects.<sup>1</sup>

- § 13. Again. If any object be cast into the air, the force with which it is cast dies gradually away, and its own weight brings it downwards; at first slowly, then faster and faster every moment, in a curve which, as the line of fall necessarily nears the perpendicular, is continually approximating to a straight line. This curve—called the parabola—is that of all projected or bounding objects.
- § 14. Again. If a rod or stick of any kind gradually becomes more slender or more flexible, and is bent by any external force, the force will not only increase in effect as the rod becomes weaker, but the rod itself, once bent, will continually yield more willingly, and be more easily bent farther in the same direction, and will thus show a continual increase of curvature from its thickest or most rigid part to its extremity. This kind of line is that assumed by boughs of trees under wind.
- § 15. Again. Whenever any vital force is impressed on any organic substance, so as to die gradually away as the substance extends, an infinite curve is commonly produced by its outline. Thus, in the budding of the leaf, already examined, the gradual dying away of the exhilaration of the younger ribs produces an infinite curve in the outline of the leaf, which sometimes fades imperceptibly into a right line,—sometimes is terminated sharply, by meeting the opposite curve at the point of the leaf.
- § 16. Nature, however, rarely condescends to use one curve only in any of her finer forms. She almost always unites two infinite ones, so as to form a reversed curve for each main line, and then modulates each of them into myriads of minor ones. In a single elm leaf, such as Fig. 4. Plate 8., she uses three such—one for the stalk, and one for each of the sides,—to regulate their *general*

<sup>1</sup> The catenary is not properly a curve capable of infinity, if its direction does not alter with its length; but it is capable of infinity, implying such alteration by the infinite removal of the points of suspension. It entirely corresponds in its effect on the eye and mind to the infinite curves. I do not know the exact nature of the apparent curves of suspension formed by a high and weighty waterfall; they are dependent on the gain in rapidity of descent by the central current, where its greater body is less arrested by the air; and, I apprehend, are catenary in character, though not in cause.





J. Ruskin

R. P. Cull









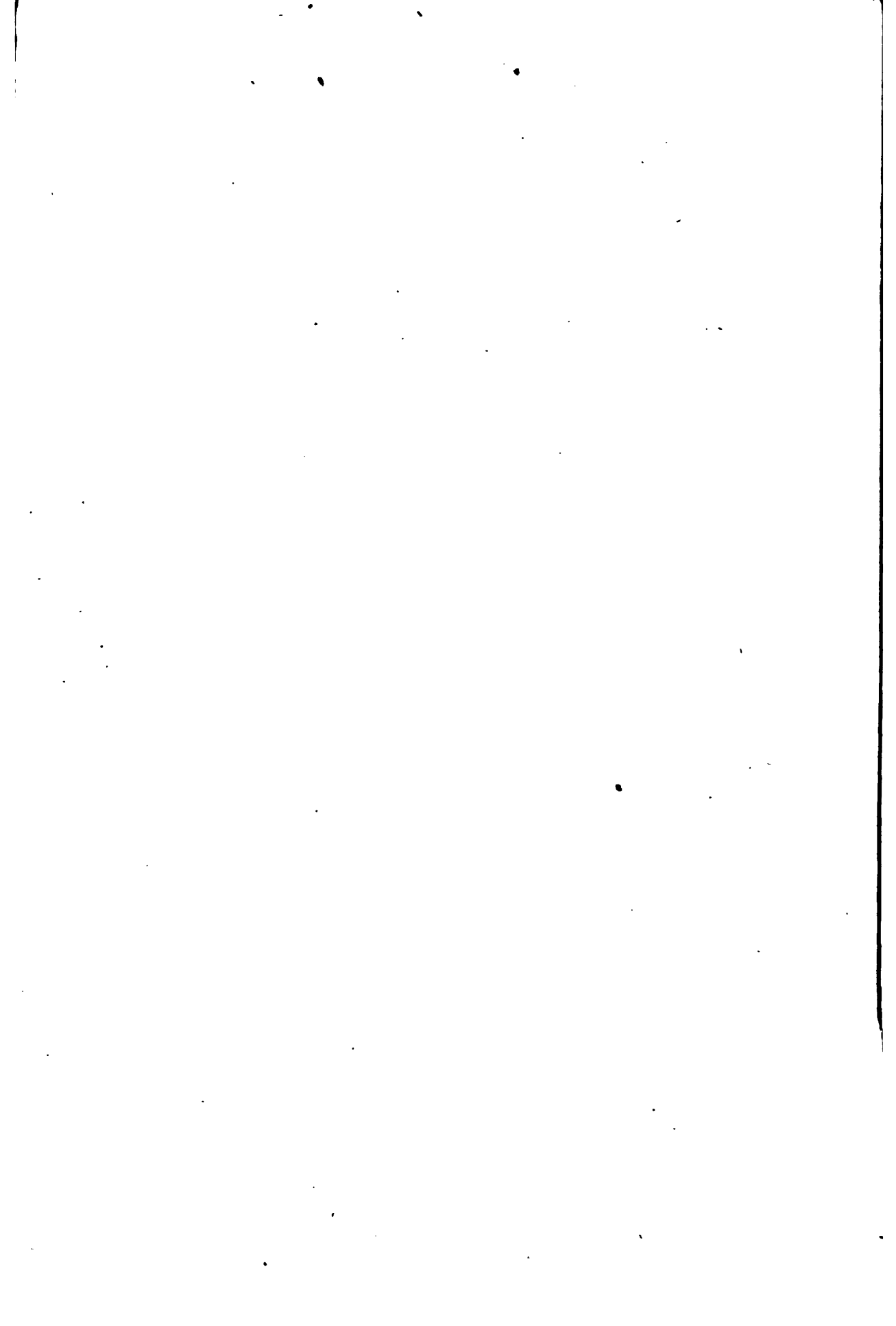


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43. Leaf Curvature. Dead Laurel.









J. B. R. 1911

F. P. C. 1911

44 Leaf Curvature. Young Ivy.







flow; dividing afterwards each of their broad lateral lines into some twenty less curves by the jags of the leaf, and then again into minor waves. Thus, in any complicated group of leaves whatever, the infinite curves are themselves almost countless. In a single extremity of a magnolia spray, the uppermost figure in Plate 42., including only sixteen leaves, each leaf having some three to five distinct curves along its edge, the lines for separate study, including those of the stems, would be between sixty and eighty. In a single spring-shoot of laburnum, the lower figure in the same plate, I leave the reader to count them for himself; all these, observe, being seen at one view only, and every change of position bringing into sight another equally numerous set of curves. For instance, in Plate 43. is a group of four withered leaves, in four positions, giving, each, a beautiful and well-composed group of curves, variable gradually into the next group as the branch is turned.

§ 17. The following Plate (44.), representing a young shoot of independent ivy, just beginning to think it would like to get something to cling to, shows the way in which Nature brings subtle curvature into forms that at first seem rigid. The stems of the young leaves look nearly straight, and the sides of the projecting points, or bastions, of the leaves themselves nearly so; but on examination it will be found that there is not a stem nor a leaf-edge but is a portion of one infinite curve, if not of two or three. The main line of the supporting stem is a very lovely one; and the little half-opened leaves, in their thirteenth-century segmental simplicity (compare Fig. 9. Plate 8. in Vol. III.), singularly spirited and beautiful. It may, perhaps, interest the general reader to know that one of the infinite curves derives its name from its supposed resemblance to the climbing of ivy up a tree.

§ 18. I spoke just now of "well-composed" curves,—I mean curves so arranged as to oppose and set each other off, and yet united by a common law; for as the beauty of every curve depends on the unity of its several component lines, so the beauty of each group of curves depends on their submission to some general law. In forms which quickly attract the eye, the law which unites the curves is distinctly manifest; but, in the richer compositions of

Nature, cunningly concealed by delicate infractions of it;—wilfulnesses they seem, and forgetfulnesses, which, if once the law be perceived, only increase our delight in it by showing that it is one of equity, not of rigour, and allows, within certain limits, a kind of individual liberty. Thus the system of unison which regulates the magnolia shoot, in Plate 42., is formally expressed in Fig. 97. Every line has its origin in the point P, and the



Fig. 97.

curves generally diminish in intensity towards the extremities of the leaves, one or two, however, again increasing their sweep near the points. In vulgar ornamentation, entirely rigid laws of line are always observed; and the common Greek honeysuckle and other such formalisms are attractive to uneducated eyes, owing to their manifest compliance with the first conditions of unity and symmetry, being to really noble ornamentation what the sing-song of a bad reader of poetry, laying regular emphasis on every required syllable of every foot, is to the varied, irregular, unexpected,

inimitable cadence of the voice of a person of sense and feeling reciting the same lines,—not incognizant of the rhythm, but delicately bending it to the expression of passion, and the natural sequence of the thought.

- § 19. In mechanically drawn patterns of dress, Alhambra and common Moorish ornament, Greek mouldings, common flamboyant traceries, common Corinthian and Ionic capitals, and such other work, lines of this declared kind (generally to be classed under the head of “doggrel ornamentation”) may be seen in rich profusion; and they are necessarily the only kind of lines which can be felt or enjoyed by persons who have been educated without reference to natural forms; their instincts being blunt, and their eyes actually incapable of perceiving the inflexion of noble curves. But the moment the perceptions have been refined by reference to natural form, the eye requires perpetual variation and transgression of the formal law. Take the simplest possible condition of thirteenth-century scroll-work, Fig. 98. The law or cadence established is of a circling tendril, terminating in an ivy-leaf. In vulgar design, the curves of the circling tendril would have been similar to each other, and might have been drawn by a machine, or by some mathematical formula. But in good design all imitation by machinery is impossible. No curve is like another for an instant; no branch springs at an expected point. A cadence is observed, as in the returning clauses of a beautiful air in music; but every clause has its own change, its own surprises. The enclosing form is here stiff and (nearly) straight-sided, in order to oppose the circular scroll-work; but on looking close it will be found that each of its sides is a portion of an infinite curve, almost too delicate to be traced; except the short lowest one, which is made quite straight, to oppose the rest.



Fig. 98.

I give one more example from another leaf of the same manu-

script, Fig. 99., merely to show the variety introduced by the old designers between page and page. And, in general, the reader may take it for a settled law that, whatever can be done by machinery, or imitated by formula, is not worth doing or imitating at all.



Fig. 99.

- § 20. The quantity of admissible transgression of law varies with the degree in which the ornamentation involves or admits imitation of nature. Thus, if these ivy leaves in Fig. 99. were completely drawn in light and shade, they would not be properly connected with the more or less regular sequences of the scroll; and in very subordinate ornament, something like complete symmetry may be admitted, as in bead mouldings, chequerings, &c. Also, the ways in which the transgression may be granted vary infinitely; in the finest compositions it is perpetual, and yet so balanced and atoned for as always to bring about more beauty than if there had been no transgression. In a truly fine mountain or organic line, if it is looked at in detail, no one would believe in its being a continuous curve, or being subjected to any fixed law. It seems broken, and bending a thousand ways; perfectly free and wild, and yielding to every impulse. But, after following with the eye three or four of its impulses, we shall begin to trace some strange order among them; every

added movement will make the ruling intent clearer; and when the whole life of the line is revealed at last, it will be found to have been, throughout, as obedient to the true law of its course as the stars in their orbits.

§ 21. Thus much may suffice for our immediate purpose respecting beautiful lines in general. We have now to consider the particular groups of them belonging to mountains.

The four systems of mountain line.

The lines which are produced by course of time upon hill contours are mainly divisible into four systems.

1. Lines of Fall. Those which are wrought out on the solid mass by the fall of water or of stones.

2. Lines of Projection. Those which are produced in debris by the bounding of the masses, under the influence of their falling force.

3. Lines of Escape. Those which are produced by the spreading of debris from a given point over surfaces of varied shape.

4. Lines of Rest. Those which are assumed by debris when in a state of comparative permanence and stability.

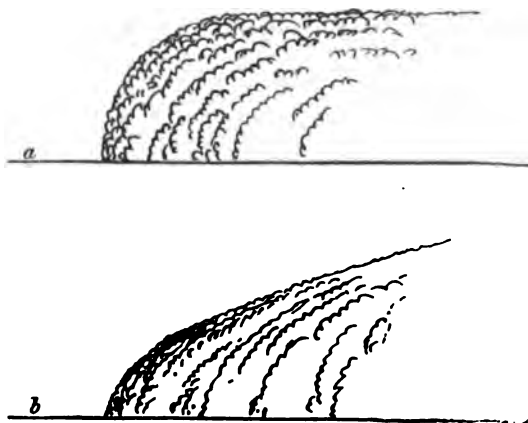


Fig. 100.

#### 1. Lines of Fall.

However little the reader may be acquainted with hills, I believe that, almost instinctively, he will perceive that the form supposed to belong to a wooded promontory at *a*, Fig. 100., is an

1. Lines of Fall. Produced by falling bodies upon hill-surfaces.

impossible one; and that the form at *b* is not only a possible but probable one. The lines are equally formal in both. But in *a*, the curve is a portion of a circle, meeting a level line: in *b* it is an infinite line, getting less and less steep as it ascends.

Whenever a mass of mountain is worn gradually away by forces descending from its top, it *necessarily* assumes, more or less perfectly, according to the time for which it has been exposed, and the tenderness of its substance, such contours as those at *b*, for the simple reason that every stream and every falling grain of sand gains in velocity and erosive power as it descends. Hence, cutting away the ground gradually faster and faster, they produce the most rapid curvature (provided the rock be hard enough) towards the bottom of the hill.<sup>1</sup>

§ 22. But farther: in *b* it will be noticed that the lines always get steeper as they fall more and more to the right; and I should think the reader must feel that they look more natural, so drawn, than, as at *a*, in unvarying curves.

This is no less easily accounted for. The simplest typical form under which a hill can occur is that of a cone. Let  $\triangle C B$ , Fig. 101., have been its original contour. Then the aqueous forces

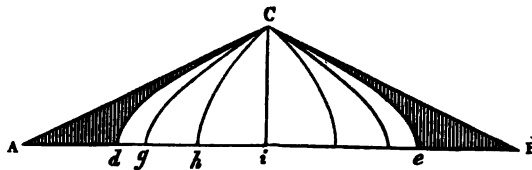


Fig. 101.

will cut away the shaded portions, reducing it to the outline *d c e*. Farther, in doing so, the water will certainly have formed for itself gullies or channels from top to bottom. These, sup-

<sup>1</sup> I am afraid of becoming tiresome by going too far into the intricacies of this most difficult subject; but I say "*towards* the bottom of the hill," because, when a certain degree of verticality is reached, a counter protective influence begins to establish itself, the stones and waterfalls bounding away from the brow of the precipice into the air, and wearing it at the top only. Also it is evident that when the curvature falls into a vertical cliff, as often happens, the maximum of curvature must be somewhere *above* the brow of the cliff, as in the cliff itself it has again died into a straight line.

posing them at equal distances round the cone, will appear, in perspective, in the lines *g h i*. It does not, of course, matter whether we consider the lines in this figure to represent the bottom of the ravines, or the ridges between, both being formed on similar curves; but the rounded lines in Fig. 100. would be those of forests seen on the edges of each detached ridge.

- § 23. Now although a mountain is rarely perfectly conical, and never divided by ravines at exactly equal distances, the law which is seen in entire simplicity in Fig. 101., applies with a sway more or less interrupted, but always manifest, to every convex and retiring mountain form. All banks that thus turn away from the spectator necessarily are thrown into perspectives like that of one side of this figure; and although not divided with equality, their irregular divisions crowd gradually together towards the distant edge, being then less steep, and separate themselves towards the body of the hill, being then more steep.
- § 24. It follows, also, that not only the whole of the nearer curves will be steeper, but, if seen from below, the steepest parts of them will be the more important. Supposing each, instead of a curve, divided into a sloping line and a precipitous one, the perspective of the precipice, raising its top continually, will give the whole cone the shape of *a* or *b* in Fig. 102., in which, observe, the precipice is of more importance, and the slope of less, precisely in proportion to the nearness of the mass.

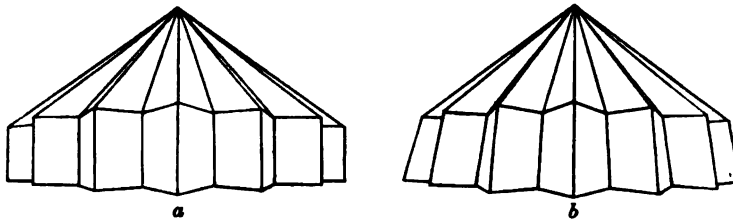


Fig. 102.

- § 25. Fig. 102., therefore, will be the general type of the form of a convex retiring hill symmetrically constructed. The precipitous part of it may vary in height or in slope according to original conformation; but, the heights being supposed equal along the whole flank, the contours will be as in that figure; the various

rise and fall of real height altering the perspective appearance accordingly, as we shall see presently, after examining the other three kinds of line.

## § 26.

## 2. Lines of Projection.

2. Lines of Projection.  
Produced by fragments bounding, or carried forward from the bases of hills.

The fragments carried down by the torrents from the flanks of the hill are of course deposited at the base of it. But they are deposited in various ways, of which it is most difficult to analyze the laws; for they are thrown down under the influence partly of flowing water, partly of their own gravity, partly of projectile force caused by their fall from the higher summits of the hill; while the debris itself, after it has fallen, undergoes farther modification by surface streamlets. But in a general way debris descending from the hill side, *a b*, Fig. 103., will arrange itself in a form approximating to the concave line *dc*, the larger masses remaining undisturbed at the bottom, while the smaller are gradually carried farther and farther by surface streams.

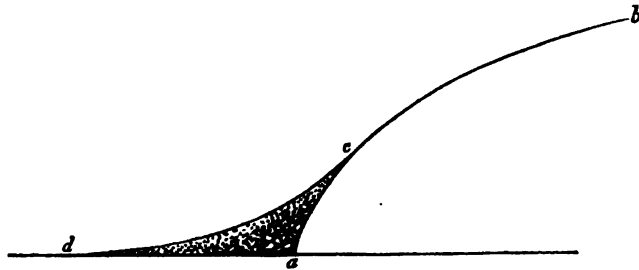


Fig. 103.

## § 27.

## 3. Lines of Escape.

3. Lines of Escape.  
Produced by the lateral dissemination of the fragments.

But this form is much modified by the special direction of the descending force as it escapes from confinement. For a stream coming down a ravine is kept by the steep sides of its channel in concentrated force: but it no sooner reaches the bottom, and escapes from its ravine, than it spreads in all directions, or at least tries to choose a new channel at every flood. Let *a b c*, Fig. 104., be three ridges of mountain. The two torrents coming down the ravines between them meet, at *d* and *e*, with the heaps of ground formerly thrown down by their



own agency. These heaps being more or less in the form of cones, the torrent has a tendency to divide upon their apex, like water poured on the top of a sugar-loaf, and branch into the radiating channels *ex*, *ey*, &c. The stronger it is, the more it is disposed to rush straightforward, or with little curvature, as in the line *ex*,

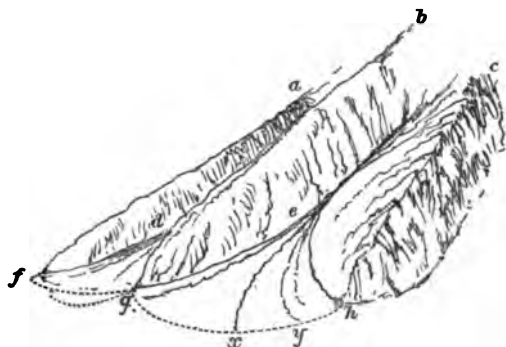


Fig. 104.

with the impetus it has received in coming down the ravine; the weaker it is, the more readily it will lean to one side or the other, and fall away in the lines of escape, *ey* or *eh*; but of course at times of highest flood it fills all its possible channels, and invents a few new ones, of which afterwards the straightest will be kept by the main stream, and the lateral curves occupied by smaller branches; the whole system corresponding precisely to the action of the ribs of the young leaf, as shown in Plate 8. of Vol. III., especially in Fig. 6.,—the main torrent, like the main rib, making the largest fortune, i.e. raising the highest heap of gravel and dust.

- § 28. It may easily be imagined that when the operation takes place on a large scale, the mass of earth thus deposited in a gentle slope at the mountain's foot becomes available for agricultural purposes, and that then it is of the greatest importance to prevent the stream from branching into various channels at its will, and pouring fresh sand over the cultivated fields. Accordingly, at the mouth of every large ravine in the Alps, where the peasants know how to live and how to work, the stream is artificially embanked, and compelled as far as possible to follow the central line down the

cone. Hence, when the traveller passes along any great valley, — as that of the Rhone or Arve, — into which minor torrents are poured by lateral ravines, he will find himself every now and then ascending a hill of moderate slope, at the *top* of which he will cross a torrent, or its bed, and descend by another gradual slope to the usual level of the valley. In every such case, his road has ascended a tongue of debris, and has crossed the embanked torrent carried by force along its centre.

Under such circumstances, the entire tongue or heap of land ceases of course to increase, until the bed of the confined torrent is partially choked by its perpetual deposit. Then in some day of violent rain the waves burst their fetters, branch at their own will, cover the fields of some unfortunate farmer with stones and slime, according to the torrent's own idea of the new form which it has become time to give to the great tongue of land, carry away the road and the bridge together, and arrange everything to their own liking. But the road is again painfully traced among the newly fallen debris; the embankment and bridge again built for the stream, now satisfied with its outbreak; and the tongue of land submitted to new processes of cultivation for a certain series of years. When, however, the torrent is exceedingly savage, and generally of a republican temper, the outbreaks are too frequent and too violent to admit of any cultivation of the tongue of land. A few straggling alder or thorn bushes, their roots buried in shingle, and their lower branches fouled with slime, alone relieve with ragged spots of green the broad waste of stones and dust. The utmost that can be done is to keep the furious stream from choosing a new channel in every one of its fits of passion, and remaining in it afterwards, thus extending its devastation in entirely unforeseen directions. The land which it has brought down must be left a perpetual sacrifice to its rage; but in the moment of its lassitude it is brought back to its central course, and compelled to forego for a few weeks or months the luxury of deviation.

- § 29. On the other hand, when, owing to the nature of the valley above, the stream is gentle, and the sediment which it brings down small in quantity, it may be retained for long years in its constant

path, while the sides of the bank of earth it has borne down are clothed with pasture and forest, seen in the distance of the great valley as a promontory of sweet verdure, along which the central stream passes with an influence of blessing, submitting itself to the will of the husbandman for irrigation, and of the mechanist for toil; now nourishing the pasture, and now grinding the corn, of the land which it has first formed, and now waters.

§ 30. I have etched above, Plate 35., a portion of the flank of the valley of Chamouni, which presents nearly every class of line under discussion, and will enable the reader to understand their relations at once. It represents, as was before stated, the crests of the Montagnes de la Côte and Taconay, shown from base to summit, with the Glacier des Bossons and its moraine. The reference figure given at p. 217. will enable the reader to distinguish its several orders of curves, as follows:

*h r.* Aqueous curves of fall, at the base of the Tapia; very characteristic. Similar curves are seen in multitude on the two crests beyond as *b c*, *c B*.

*d e.* First lines of projection. The debris falling from the glacier and the heights above.

*k, l, n.* Three lines of escape. A considerable torrent (one of whose falls is the well-known Cascade des Pélerins<sup>1</sup>)

<sup>1</sup> The following extract from my private diary, giving an account of the destruction of the beauty of this waterfall in the year 1849, which I happened to witness, may be interesting to those travellers who remember it before that period. The house spoken of as "Joseph's," is that of the guide Joseph Coutet, in a village about a mile below the cascade, between it and the Arve: that noticed as of the "old avalanche" is a hollow in the forest, cleft by a great avalanche which fell from the Aiguille du Midi in the spring of 1844. It struck down about a thousand full-grown pines, and left an open track in the midst of the wood, from the cascade nearly down to the village.

"Evening, Thursday, June 28th. I set out for the Cascade des Pélerins as usual; when we reached Joseph's house, we heard a sound from the torrent like low thunder, or like that of a more distant and heavier fall. A peasant said something to Joseph, who stopped to listen, then nodded, and said to me, 'La cascade vient de se déborder.' Thinking there would be time enough afterwards to ask for explanations, I pushed up the hill almost without asking a question. When we reached the place of the old avalanche, Joseph called to me to stop and see the torrent increase. There was at this time a dark cloud on the Aiguille du Midi, down to its base; the upper part of the torrent was brown, the lower white, not larger than

descends from behind the promontory *k*: its natural or proper course would be to dash straight forward down the line *fg*, and part of it does so; but erratic branches of it slide away round the promontory, in the lines of escape, *k*, *l*, &c. Each row of trees marks, therefore, an old torrent bed, for the torrent always throws heaps of stones up along its banks, on which the pines, growing higher than on the neighbouring ground, indicate its course by their supremacy. When the escaped stream is feeble, it steals quietly away down the steepest part of the slope; that is to say, close under the promontory, at *i*. If it is stronger, the impetus from the hill above shoots it farther out, in the line *k*; if stronger still, at *l*; in each case it curves gradually round as it loses its onward force, and falls more and more languidly to leeward, down the slope of the debris.

*rs.* A line which, perhaps, would be more properly termed of limitation than of escape, being that of the base or termination of the heap of torrent debris, which in shape

usual. The brown part came down, I thought, with exceeding slowness, reaching the cascade gradually; as it did so, the fall rose to about once and a half its usual height, and in the five minutes' time that I paused (it could not be more) turned to the colour of slate. I then pushed on as hard as I could. When I reached the last ascent I was obliged to stop for breath, but got up before the fall could sensibly have diminished in body of water. It was then nearly twice as far cast out from the rock as last night, and the water nearly black in colour; and it had the appearance, as it broke and separated at the outer part of the fall, of a shower of fragments of flat slate. The reason of this appearance I could not comprehend, unless the water was so mixed with mud that it drew out flat and unctuously when it broke; but so it was: instead of spray it looked like a shower of dirty flat bits of slate—only with a lustre, as if they had been wet first. This, however, was the least of it, for the torrent carried with it nearly as much weight of stone as water; the stones varying in size, the average being, I suppose, about that of a hen's egg; but I do not suppose that at any instant the arch of water was without four or five as large as a man's fist, and often came larger ones,—all vomited forth with the explosive power of a small volcano, and falling in a continual shower as thick, constant, and, had it not been mixed with the crash of the fall, as loud as a heavy fire of infantry; they bounded and leaped in the basin of the fall like hailstones in a thunder-shower. As we watched the fall it seemed convulsively to diminish, and suddenly showed, as it shortened, the rock underneath it, which I could hardly see yesterday: as I cried out to Joseph it rose again, higher than ever, and continued to rise, till it all but reached the snow on the rock opposite. It then became very fantastic and variable, increasing and diminishing in the space of two or three seconds, and partially changing its directions. After watching it for half an hour or so, I determined to try and make some memo-

corresponds exactly to the curved lip of a wave, after it has broken, as it slowly stops upon a shallow shore. Within this line the ground is entirely composed of heaps of stones, cemented by granite dust, and cushioned with moss, while outside of it, all is smooth pasture. The pines enjoy the stony ground particularly, and hold large meetings upon it, but the alders are shy of it; and, when it has come to an end, form a triumphal procession all round its edge, following the concave line. The correspondent curves above are caused by similar lines in which the debris has formerly stopped.

§ 31. I found it a matter of the greatest difficulty to investigate the picturesque characters of these lines of projection and escape, because, as presented to the eye, they are always modified by perspective; and it is almost a physical impossibility to get a true profile of any of the slopes, they round and melt so constantly into one another. Many of them, roughly measured, are nearly circular in tendency<sup>1</sup>; but I believe they are all portions

randa. Coutet brought me up a jug of water: I stooped to dip my brush, when Coutet caught my arm, saying, 'Tenez;' at the same instant I heard a blow, like the going off of a heavy gun, two or three miles away; I looked up, and as I did, the cascade sank before my eyes, and fell back to the rock. Neither of us spoke for an instant or two; then Coutet said, 'C'est une pierre, qui est logée dans le creux,' or words to that effect: in fact, he had seen the stone come down as he called to me. I thought also that nothing more had happened, and watched the destroyed fall only with interest, until, as suddenly as it had fallen, it rose again, though not to its former height; and Coutet, stooping down, exclaimed, 'Ce n'est pas c'a, le roc est percé;' in effect, a hole was now distinctly visible in the cup which turned the stream, through which the water whizzed as from a burst pipe. The cascade, however, continued to increase, until this new channel was concealed, and I was maintaining to Coutet that he must have been mistaken (and that the water only *struck* on the outer rock, having changed its mode of fall above), when again it fell; and the two girls, who had come up from the chalet, expressed their opinion at once, that the 'cascade est finie.' This time all was plain; the water gushed in a violent jet d'eau through the new aperture, hardly any of it escaping above. It rose again gradually, as the hole was choked with stones, and again fell; but presently sprang out almost to its first elevation (the water being by this time in much less body), and retained very nearly the form it had yesterday, until I got tired of looking at it, and went down to the little chalet and sat down before its door. I had not been there five minutes before the cascade fell, and rose no more."

<sup>1</sup> It might be thought at first that the line to which such curves would approximate would be the cycloid, as the line of quickest descent. But in reality the contour is modified by perpetual sliding of the debris under the influence of rain; and by the

of infinite curves either modified by the concealment or destruction of the lower lips of debris, or by their junction with straight lines of slope above, throwing the longest limb of the curve upwards. Fig. 1., in Plate 45. opposite, is a simple but complete example from Chamouni; the various overlapping and concave lines at the bottom being the limits of the mass at various periods, more or less broken afterwards by the peasants, either by removing stones for building, or throwing them back at the edges here and there, out of the way of the plough; but even with all these breaks, their natural unity is so sweet and perfect, that, if the reader will turn the plate upside down, he will see I have no difficulty (merely adding a quill or two) in turning them into a bird's wing (Fig. 2.), a little ruffled indeed, but still graceful, and not of such a form as one would have supposed likely to be designed and drawn, as indeed it was, by the rage of a torrent.

But we saw in Chap. VII. § 10. that this very rage was, in fact, a beneficent power,—creative, not destructive; and as all its apparent cruelty is overruled by the law of love, so all its apparent disorder is overruled by the law of loveliness: the hand of God, leading the wrath of the torrent to minister to the life of mankind, guides also its grim surges by the laws of their delight; and bridles the bounding rocks, and appeases the flying foam, till they lie down in the same lines that lead forth the fibres of the down on a cygnet's breast.

§ 32. The straight slopes with which these curves unite themselves below, in Plate 35. (*fg* in reference figure), are those spoken of in the outset as lines of rest. But I defer to the next chapter the examination of these, which are a separate family of lines (not curves at all), in order to reassemble the conclusions we have now obtained respecting *curvature* in mountains, and apply them to questions of art.

And, first, it is of course not to be supposed that these symmetrical laws are so manifest in their operation as to force themselves on the observance of men in general. They are interrupted,

bounding of detached fragments with continually increased momentum. I was quite unable to get at anything like the expression of a constant law among the examples I studied in the Alps, except only the great laws of delicacy and changefulness in all curves whatsoever.

PART V.

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45. Debris Curvature.







46. The Buttresses of an Alp.





necessarily, by every fantastic accident in the original conformation of the hills, which, according to the hardness of their rocks, more or less accept or refuse the authority of general law. Still, the farther we extend our observance of hills, the more we shall be struck by the continual roundness and softness which it seems the object of nature to give to every form; so that, when crags look sharp and distorted, it is not so much that they are unrounded, as that the various curves are more subtly accommodated to the angles, and that, instead of being worn into one sweeping and smooth descent, like the surface of a knoll or down, the rock is wrought into innumerable minor undulations, its own fine anatomy showing through all.

- § 33. Perhaps the mountain which I have drawn on the opposite page (Plate 46.<sup>1</sup>) is, in its original sternness of mass, and in the complexity of lines into which it has been chiselled, as characteristic an instance as could be given by way of general type. It is one of no name or popular interest, but of singular importance in the geography of Switzerland, being the angle buttress of the great northern chain of the Alps (the chain of the Jungfrau and Gemmi), and forming the promontory round which the Rhone turns to the north-west, at Martigny. It is composed of an intensely hard gneiss (slaty crystalline), in which the plates of mica are set for the most part against the angle, running nearly north and south, as in Fig. 105., and giving the point therefore, the utmost possible strength, which, however, cannot prevent it from being rent gradually by enormous curved fissures, and separated into huge vertical flakes and chasms, just at the lower promontory, as seen in Plate 46., and (in plan) in Fig. 105. The whole of the upper surface of the promontory is wrought by

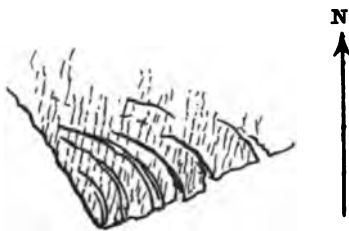


Fig. 105.

<sup>1</sup> I owe Mr. Le Keux sincere thanks, and not a little admiration, for the care and skill with which he has followed, on a much reduced scale, the detail of this drawing.

the old glaciers into furrows and striæ more notable than any I ever saw in the Alps.

- § 34. Now observe, we have here a piece of Nature's work which she has assuredly been long in executing, and which is in peculiarly firm and stable material. It is in her best rock (slaty crystalline), at a point important for all her geographical purposes, and at the degree of mountain elevation especially adapted to the observation of mankind. We shall therefore probably ascertain as much of Nature's mind about these things in this piece of work as she usually allows us to see all at once.
- § 35. If the reader will take a pencil, and, laying tracing paper over the plate, follow a few of its lines, he will (unless before accustomed to accurate mountain-drawing) be soon amazed by the complexity, endlessness, and harmony of the curvatures. He will find that there is not one line in all that rock which is not an infinite curve, and united in some intricate way with others, and suggesting others unseen; and if it were the reality, instead of my drawing, which he had to deal with, he would find the infinity, in a little while, altogether overwhelm him. But even in this imperfect sketch, as he traces the multitudinous involution of flowing line, passing from swift to slight curvature, or slight to swift, at every instant, he will, I think, find enough to convince him of the truth of what has been advanced respecting the natural appointment of curvature as the first element of all loveliness in form.
- § 36. "Nay, but there are hard and straight lines mingled with those curves continually." True, as we have said so often, just as shade is mixed with light. Angles and undulations may rise and flow continually, one through or over the other; but the opposition is in quantity nearly always the same, if the mass is to be pleasant to the eye. In the example previously given (Plate 40.), the limestone bank above Villeneuve, it is managed in a different way, but is equal in degree; the lower portion of the hill is of soft rock in thin laminæ; the upper mass is a solid and firm bed, yet not so hard as to stand all weathers. The lower portion therefore is rounded into almost unbroken softness of bank; the upper surmounts it as a rugged wall, and the opposition of



the curve and angle is just as complete as in the first example, in which one was continually mingled with the other.

§ 37. Next, note the *quantity* in these hills. It is an element on which I shall have to insist more in speaking of vegetation; but I must not pass it by, here, since, in fact, it constitutes one of the essential differences between hills of first-rate magnificence, and inferior ones. Not that there is want of quantity even in the lower ranges, but it is a quantity of inferior things, and therefore more easily represented or suggested. On a Highland hill side are multitudinous clusters of fern and heather; on an Alpine one, multitudinous groves of chestnut and pine. The number of the things may be the same, but the sense of infinity is in the latter case far greater, because the number is of nobler things. Indeed, so far as mere magnitude of space occupied on the field of the horizon is the measure of objects, a bank of earth ten feet high may, if we stoop to the foot of it, be made to occupy just as much of the sky as that bank of mountain at Villeneuve; nay, in many respects its little ravines and escarpments, watched with some help of imagination, may become very sufficiently representative to us of those of the great mountain; and in classing all water-worn mountain-ground under the general and humble term of Banks, I mean to imply this relationship of structure between the smallest eminences and the highest. But in this matter of superimposed *quantity* the distinctions of rank are at once fixed. The heap of earth bears its few tufts of moss or knots of grass; the Highland or Cumberland mountain its honeyed heathers or scented ferns; but the mass of the bank at Martigny or Villeneuve has a vineyard in every cranny of its rocks, and a chestnut grove on every crest of them.

§ 38. This is no poetical exaggeration. Look close into that plate (46.). Every little circular stroke in it among the rocks means, not a clump of copse nor wreath of fern, but a walnut tree, or a Spanish chestnut, fifty or sixty feet high. Nor are the little curves, thus significative of trees, laid on at random. They are not indeed counted, tree by tree, but they are most carefully distributed in the true proportion and quantity; or if I have erred at all, it was from mere fatigue, on the side of sparingness. The

minute mounds and furrows scattered up the side of that great promontory, when they are actually approached, after three or four hours' climbing, turn into independent hills with true *parks* of lovely pasture land enclosed among them, and avenue after avenue of chestnuts, walnuts, and pines bending round their bases; while in the deeper dingles, unseen in the drawing, nestle populous villages, literally bound down to the rock by enormous trunks of vine, which, first trained lightly over the loose stone roofs, have in process of years cast their fruitful net over the whole village, and fastened it to the ground under their purple weight and wayward coils, as securely as ever human heart was fastened to earth by the net of the Flatterer.

- § 39. And it is this very richness of incident and detail which renders Switzerland so little attractive in its subjects to the ordinary artist. Observe, this study of mine in Plate 46. does not profess to be a *picture* at all. It is a mere sketch or catalogue of all that there is on the mountain side, faithfully written out, but no more than should be put down by any conscientious painter for mere guidance, before he begins his work, properly so called; and in finishing such a subject no trickery nor short-hand is of any avail whatsoever; there are a certain number of trees to be drawn; and drawn they must be, or the place will not bear its proper character. They are not misty wreaths of soft wood suggestible by a sweep or two of the brush; but arranged and lovely clusters of trees, clear in the mountain sunlight, each specially grouped, and as little admitting any carelessness of treatment, though five miles distant, as if they were within a few yards of us; the whole meaning and power of the scene being involved in that one fact of quantity. It is not large merely by multitude of tons of rock,—the number of tons is not measurable; it is not large by elevation of angle on the horizon,—a house-roof near us rises higher; it is not large by faintness of aerial perspective,—in a clear day it often looks as if we could touch the summit with the hand. But it is large by this one unescapable fact that, from the summit to the base of it, there are of timber trees so many countable thousands. The scene differs from subjects not Swiss by including hundreds of other scenes within itself, and is mighty, not by scale, but by aggregation.

§ 40. And this is more especially and humiliatingly true of pine forest. Nearly all other kinds of wood may be reduced, over large spaces, to undetailed masses; but there is nothing but patience for pines; and this has been one of the principal reasons why artists call Switzerland "unpicturesque." There may perhaps be, in the space of a Swiss valley which comes into a picture, from five to ten millions of well grown pines.<sup>1</sup> Every one of these pines must be drawn before the scene can be. And a pine cannot be represented by a round stroke, nor by an upright one, nor even by an angular one; no conventionalism will express a pine; it must be legitimately drawn, with a light side and dark side, and a soft gradation from the top downwards, or it does not look like a pine at all. Most artists think it not desirable to choose a subject which involves the drawing of ten millions of trees; because, supposing they could even do four or five in a minute, and worked for ten hours a day, their picture would still take them ten years before they had finished its pine forests. For this, and other similar reasons, it is declared usually that Switzerland is ugly and unpicturesque; but that is not so; it is only that *we* cannot paint it. If we could, it would be as interesting on the canvass as it is in reality; and a painter of fruit and flowers might just as well call a human figure unpicturesque, because it was to him unmanageable, as the ordinary landscape-effect painter speak in depreciation of the Alps.

§ 41. It is not probable that any subjects such as we have just been describing, involving a necessity of ten years' labour, will be executed by the modern landscape school,—at least, until its Pre-Raphaelitic tendencies become much more developed than they are yet; nor was it desirable that they should have been by Turner, whose fruitful invention would have been unwisely arrested for a length of time on any single subject, however beautiful. But with his usual certainty of perception, he fastened at once on this character of "quantity," as the thing to be

<sup>1</sup> Allow ten feet square for average space to each pine; suppose the valley seen only for five miles of its length, and the pine district two miles broad on each side—a low estimate of breadth also; this would give five millions.

expressed, in one way or another, in all grand mountain-drawing; and the subjects of his on which I have chiefly dwelt in the First Volume (chapter on the Inferior Mountains, § 16., &c.) are distinguished from the work of other painters in nothing so much as in this redundancy. Beautiful as they are in colour, graceful in fancy, powerful in execution,—in none of these things do they stand so much alone as in plain, calculable, quantity; he having always on the average twenty trees or rocks where other people have only one, and winning his victories not more by skill of generalship than by overwhelming numerical superiority.

- § 42. I say his works are distinguished in this more than in anything else, not because this is their highest quality, but because it is peculiar to them. Invention, colour, grace of arrangement, we may find in Tintoret and Veronese in various manifestation; but the expression of the infinite redundancy of natural landscape had never been attempted until Turner's time; and the treatment of the masses of mountain in the *Daphne* and *Leucippus*, *Golden Bough*, and *Modern Italy*, is wholly without precursorship in art.

Nor, observe, do I insist upon this quantity *merely* as arithmetical, or as if it were producible by repetition of similar things. It would be easy to be redundant, if multiplication of the same idea constituted fulness; and since Turner first introduced these types of landscape, myriads of vulgar imitations of them have been produced, whose perpetrators have supposed themselves disciples or rivals of Turner, in covering their hills with white dots for forest, and their foregrounds with yellow sparklings for herbage. But the Turnerian redundancy is never monotonous. Of the thousands of groups of touches which, with him, are necessary to constitute a single bank of hill, not one but has some special character, and is as much a separate invention as the whole plan of the picture. Perhaps this may be sufficiently understood by an attentive examination of the detail introduced by him in his *St. Gothard* subject, as shown in Plate 37.

- § 43. I do not, indeed, know if the examples I have given from natural scenes, though they are as characteristic as I could well choose, are enough to accustom the reader to the character of true

mountain lines, and to enable him to recognise such lines in other instances; but if not, at all events they may serve to elucidate the main points, and guide to more complete examination of the subject, if it interests him, among the hills themselves. And if, after he has pursued the inquiry long enough to feel the certitude of the laws which I have been endeavouring to illustrate, he turns back again to art, I am well assured it will be with a strange recognition of unconceived excellence, and a newly quickened pleasure in the unforeseen fidelity, that he will trace the pencilling of Turner upon his hill drawings. I do not choose to spend, in this work, the labour and time which would be necessary to analyze, as I have done the drawing of the St. Gothard, any other of Turner's important mountain designs; for the reader must feel the disadvantage they are under in being either reduced in scale, or divided into fragments: and therefore these chapters are always to be considered merely as memoranda for reference before the pictures which the reader may have it in his power to examine. But this one drawing of the St. Gothard, as it has already elucidated for us Turner's knowledge of crest structure, will be found no less wonderful in the fulness with which it illustrates his perception of the lower aqueous and other curvatures. If the reader will look back to the etching of the entire subject, Plate 21., he will now discern I believe, without the necessity of my lettering them for him, the lines of fall, rounded down from the crests until they plunge into the overhanging precipices; the lines of projection, where the fallen stones extend the long concave sweep from the couloir, pushing the torrent against the bank on the other side; in the opening of the ravine he will perceive the oblique and parallel inclination of its sides, following the cleavage of the beds in the diagonal line *AB* of the reference figure; and, finally, in the great slope and precipice on the right of it, he will recognise one of the grandest types of the peculiar mountain mass which Turner always chose by preference to illustrate, the "slope above wall" of *d* in Fig. 13. p. 151.; compare also the last chapter, §§ 26, 27. It will be seen, by reference to my sketch of the spot, Plate 20., that this conformation does actually exist there with great definiteness:

Turner has only enlarged and thrown it into more numerous alternations of light and shade. As these could not be shown in the etching, I have given, in the frontispiece, this passage nearly of its real size: the exquisite greys and blues by which Turner has rounded and thrown it back, are necessarily lost in the plate; but the grandeur of his simple cliff and soft curves of sloping bank above is in some degree rendered.

We must yet dwell for a moment on the detail of the rocks on the left in Plate 37., as they approach nearer the eye, turning at the same time from the light. It cost me trouble to etch this passage, and yet half its refinements are still missed; for Turner has put his whole strength into it, and wrought out the curving of the gneiss beds with a subtlety which could not be at all approached in the time I had to spare for this plate. Enough, however, is expressed to illustrate the points in question.

§ 44. We have first, observe, a rounded bank, broken, at its edges, into cleavages by inclined beds. I thought it would be well, lest the reader should think I dwelt too much on this particular scene, to give an instance of similar structure from another spot; and therefore I daguerreotyped the cleavages of a slope of gneiss just above the Cascade des Pélerins, Chamouni, corresponding in position to this bank of Turner's. Plate 48. (facing p. 311.), copied by Mr. Armytage from the daguerreotype, represents, necessarily in a quite unprejudiced and impartial way, the structure at present in question; and the reader may form a sufficient idea, from this plate, of the complexity of descending curve and foliated rent, in even a small piece of mountain foreground<sup>1</sup>, where the gneiss beds are tolerably continuous. But Turner had to add to such general complexity the expression of a more than ordinary undulation in the beds of the St. Gothard gneiss.

§ 45. If the reader will look back to Chapter II. § 13., he will find it stated that this scene is approached out of the defile of Dazio Grande, of which the impression was still strong on Turner's

<sup>1</sup> The white spots on the brow of the little cliff are lichens, only four or five inches broad.

mind, and where only he could see, close at hand, the nature of the rocks in a good section. It most luckily happens that De Saussure was interested by the rocks at the same spot, and has given the following account of them, *Voyages*, §§ 1801, 1802:—

“ À une lieue de Faïdo, l'on passe le Tésin pour le repasser bientôt après [see the old bridge in Turner's view, carried away in mine], et l'on trouve sur sa rive droite des couches d'une roche feuilletée, qui montent du Côté du Nord.

“ On voit clairement que depuis que les granits veinés ont été remplacés par des pierres moins solides, tantôt les rochers se sont éboulés et ont été recouverts par la terre végétale, tantôt leur situation primitive a subi des changements irréguliers.

“ § 1802. Mais bientôt après, *on monte par un chemin en corniche au dessus du Tésin, qui se précipite entre des rochers avec la plus grande violence*. Ces rochers sont là si serrés, qu'il n'y a de place que pour la rivière et pour le chemin, et même en quelques endroits, celui-ci est entièrement pris sur le roc. Je fis à pied cette montée, pour examiner avec soin ces beaux rochers, *dignes de toute l'attention d'un amateur*.

“ Les veines de ce granit forment en plusieurs endroits des *zigzags redoublés*, précisément comme ces anciennes tapisseries, connues sous le nom de points d'Hongrie; et là, on ne peut pas prononcer si les veines de la pierre, sont ou ne sont pas parallèles à ses couches. Cependant ces veines reprennent aussi dans quelques places, une direction constante, et cette direction est bien la même que celle des couches. Il paroît même qu'en divers endroits, où ces veines ont la forme d'un *sigma* ou d'une M couchée  $\Sigma$ , ce sont les grandes jambes du *sigma*, qui ont la direction des couches. Enfin, j'observai plusieurs couches, qui dans le milieu de leur épaisseur paroissent remplies de ces veines en zigzag, tandis qu'auprès de leurs bords, on les voyoit toutes en lignes droites.”

§ 46. If the reader will now examine Turner's work at the point *x* in the reference figure, and again on the stones in the foreground, comparing it finally with the fragment of the rocks which

happened fortunately to come into my foreground in Plate 20., rising towards the left, and of which I have etched the structure with some care, though at the time I had quite forgotten Saussure's notice of the peculiar M-shaped zigzags of the gneiss at the spot, I believe he will have enough evidence before him, taken all in all, to convince him of Turner's inevitable perception, and of the entire supremacy of his mountain drawing over all that had previously existed. And if he is able to refer, even to the engravings (though I desire always that what I state should be *tested* by the drawings only) of any others of his elaborate hill-subjects, and will examine their details with careful reference to the laws explained in this chapter, he will find that the Turnerian promontories and banks are always simply *right*, and that in all respects; that their gradated curvatures, and nodding cliffs, and redundant sequence of folded glen and feathery glade, are, in all their seemingly fanciful beauty, literally the most downright plainspeaking that has as yet been uttered about hills; and differ from all antecedent work, not in being ideal, but in being, so to speak, pictorial *casts* of the ground. Such a drawing as that of the Yorkshire Richmond, looking down the river, in the England Series, is even better than a model of the ground, because it gives the aerial perspective, and is better than a photograph of the ground, because it exaggerates no shadows, while it unites the veracities both of model and photograph.

- § 47. Nor let it be thought that it was an easy or creditable thing to treat mountain ground with this faithfulness in the days when Turner executed those drawings. In the *Encyclopædia Britannica* (Edinburgh, 1797), under article "Drawing," the following are the directions given for the production of a landscape:—

"If he is to draw a landscape from nature, let him take his station on a rising ground, where he will have a large horizon, and mark his tablet into three divisions, downwards from top to the bottom; and divide in his own mind the landscape he is to take into three divisions also. Then let him turn his face directly opposite to the midst of the horizon, keeping his body fixed, and draw what is directly before his eyes upon the middle division of



the tablet; then *turn his head, but not his body*<sup>1</sup>, to the left hand, and delineate what he views there, joining it properly to what he had done before; and, lastly, do the same by what is to be seen upon his right hand, laying down everything exactly, both with respect to distance and proportion. One example is given in plate clxviii.

“ The best artists of late, in drawing their landscapes, make them shoot away, one part lower than another. Those who make their landscapes mount up higher and higher, as if they stood at the bottom of a hill to take the prospect, commit a great error; the best way is to get upon a rising ground, make the nearest objects in the piece the highest, and those that are farther off to shoot away lower and lower till they come almost level with the line of the horizon, lessening everything proportionably to its distance, and observing also to make the objects fainter and less distinct the farther they are removed from the eye. He must make all his lights and shades fall one way, and let everything have its proper motion: as trees shaken by the wind, the small boughs bending more, and the large ones less; water agitated by the wind, and dashing against ships or boats, or falling from a precipice upon rocks and stones, and spirting up again into the air, and sprinkling all about; clouds also in the air now gathered with the winds; now violently condensed into hail, rain, and the like,—always remembering, that whatever motions are caused by the wind must be made all to move the same way, because the wind can blow but one way at once.”

Such was the state of the public mind, and of public instruction, at the time when Claude, Poussin, and Salvator were in the zenith of their reputation; such were the precepts which, even to the close of the century, it was necessary for a young painter to comply with during the best part of the years he gave to study. Take up one of Turner's views of our Yorkshire dells, seen from about a hawk's height of pause above the sweep of its river, and with it in your hand, side by side with the old Encyclopædia

<sup>1</sup> What a *comfortable*, as well as intelligent, operation, sketching from nature must have been in those days!

paragraph, consider what must have been the man's strength, who, on a sudden, passed from such precept to such practice.

- § 48. On a sudden it was; for, even yet a youth, and retaining profound respect for all older artists' ways of *work*, he followed his own will fearlessly in choice of *scene*; and already in the earliest of his coast drawings there are as daring and strange decisions touching the site of the spectator as in his latest works; lookings down and up into coves and clouds, as defiant of all former theories touching possible perspective, or graceful composure of subject, as, a few years later, his system of colour was of the theory of the brown tree. Nor was the step remarkable merely for its magnitude,—for the amount of progress made in a few years. It was much more notable by its direction. The discovery of the true structure of hill banks had to be made by Turner, not merely in *advance* of the men of his day, but in *contradiction* to them. Examine the works of contemporary and preceding landscapists, and it will be found that the universal practice is to make the tops of all cliffs broken and rugged, their bases smooth and soft, or concealed with wood. No one had ever observed the contrary structure, the bank rounded at the top, and broken on the flank. And yet all the hills of any importance which are met with throughout Lowland Europe are, properly speaking, high banks, for the most part following the courses of rivers, and forming a step from the high ground, of which the country generally consists, to the river level. Thus almost the whole of France, though, on the face of it, flat, is raised from 300 to 500 feet above the level of the sea, and is traversed by valleys either formed by, or directing, the course of its great rivers. In these valleys lie all its principal towns, surrounded, almost without exception, by ranges of hills covered with wood or vineyard. Ascending these hills, we find ourselves at once in an elevated plain, covered with corn and lines of apple trees, extending to the next river side, where we come to the brow of another hill, and descend to the city and valley beneath it. Our own valleys in Northumberland, Yorkshire, Derbyshire, and Devonshire, are cut in the same manner through vast extents of elevated land; the scenery which

interests the traveller chiefly, as he passes through even the most broken parts of those counties, being simply that of the high *banks* which rise from the shores of the Dart or the Derwent, the Wharfe or the Tees. In all cases, when these banks are surmounted, the sensation is one of disappointment, as the adventurer finds himself, the moment he has left the edge of the ravine, in a waste of softly undulating moor or arable land, hardly deserving the title of hill country. As we advance into the upper districts the fact remains still the same, although the banks to be climbed are higher, the ravines grander, and the intermediate land more broken. The majesty of an isolated peak is still comparatively rare, and nearly all the most interesting pieces of scenery are glens or passes, which, if seen from a height great enough to command them in all their relations, would be found in reality little more than trenches excavated through broad masses of elevated land, and expanding at intervals into the wide basins which are occupied by the glittering lake or smiling plain.

§ 49. All these facts had been entirely ignored by artists; nay, almost by geologists, before Turner's time. He saw them at once; fathomed them to the uttermost, and, partly owing to early association, partly, perhaps, to the natural pleasure of working a new mine discovered by himself, devoted his best powers to their illustration, passing by with somewhat less attention the conditions of broken-summitted rock, which had previously been the only ones known. And if we now look back to his treatment of the crest of Mont Pilate, in the figure given at the close of the last chapter, we shall understand better the nature and strength of the instinct which compelled him to sacrifice the peaked summit, and to bring the whole mountain within a lower enclosing line. In that figure, however, the dotted peak interferes with the perception of the form finally determined upon, which, therefore, I repeat here (Fig. 106. over leaf), as Turner gave it in colour. The eye may not at first detect the law of ascent in the peaks, but if the height of any one of them were altered, the general form would instantly be perceived to be less agreeable.



Fig. 106.

Fig. 107. shows that they are disposed within an infinite curve, *A c*, from which the last crag falls a little to conceal the law, while the terminal line at the other extremity, *A b*, is a minor echo of the whole contour.



Fig. 107.

§ 50. I must pause to make one exception to my general statement that this structure had been entirely ignored. The reader was, perhaps, surprised by the importance I attached to the fragment of mountain background by Masaccio, given in Plate 13. of the third volume. If he looks back to it now, his surprise will be less. It was a complete recognition of the laws of the lines of aqueous sculpture, asserted as Turner's was, in the boldest opposition to the principles of rock drawing of the time. It presents even smoother and broader masses than any which I have shown as types of hill form; but it must be remembered that Masaccio had seen only the softer contours of the Apennine limestone. I have no memorandum by me of the hill lines near Florence; but Plate 47. shows the development of limestone structure, at a spot which has, I think, the best right to be given as an example of the Italian hills, the head of the valley of Carrara. The white







49. The quarries of Carrara .





scar on the hill side is the principal quarry ; and the peaks above deserve observation, not so much for anything in their forms, as for the singular barrenness which was noted in the fifteenth chapter of the last volume (§ 8.) as too often occurring in the Apennines. Compare this plate with the previous one. The peak drawn in Plate 46. rises at least 7500 feet above the sea, —yet is wooded to its top ; this Carrara crag not above 5000<sup>1</sup>, —yet it is wholly barren.

- § 51. Masaccio, however, as we saw, was taken away by death before he could give any one of his thoughts complete expression. Turner was spared to do *his* work, in this respect at least, completely. It might be thought that, having had such adverse influence to struggle with, he would prevail against it but in part ; and, though showing the way to much that was new, retain of necessity some old prejudices, and leave his successors to pursue in purer liberty, and with happier power, the path he had pointed out. But it was not so : he did the work so completely on the ground which he chose to illustrate, that nothing is left for future artists to accomplish in that kind. Some classes of scenery, as often pointed out in the preceding pages, he was unfamiliar with, or held in little affection, and out of that scenery, untouched by him, new motives may be obtained ; but of such landscape as his favourite Yorkshire Wolds, and banks of Rhenish and French hill, and rocky mountains of Switzerland, like the St. Gothard, already so long dwelt upon, he has expressed the power in what I believe to be for ever a central and unmatched way. I do not say this with positiveness, because it is not demonstrable. Turner may be beaten on his own ground—so may Tintoret, so may Shakespere, Dante, or Homer : but my *belief* is that all these first-rate men are lonely men ; that the particular work they did was by them done for ever in the best way ; and that this work done by Turner among the hills, joining the most intense appreciation of all tenderness with delight in all magnitude, and memory for all detail, is never to be rivalled, or looked upon in similitude again.

<sup>1</sup> It is not one of the highest points of the Carrara chain. The chief summits are much more jagged, and very noble. See Chap. XX. § 20.

## CHAPTER XVIII.

## RESULTING FORMS: — FIFTHLY, STONES.

§ 1. It is somewhat singular that the indistinctness of treatment which has been so often noticed as characteristic of our present art shows itself always most when there is least apparent reason for it. Modern artists, having some true sympathy with what is vague in nature, draw all that is uncertain and evasive without evasion, and render faithfully whatever can be discerned in faithless mist or mocking vapours; but having no sympathy with what is solid and serene, they seem to become uncertain themselves in proportion to the certainty of what they see; and while they render flakes of far-away cloud, or fringes of inextricable forest, with something like patience and fidelity, give nothing but the hastiest indication of the ground they can tread upon or touch. It is only in modern art that we find any complete representation of clouds, and only in ancient art that, generally speaking, we find any careful realization of Stones.

§ 2. This is all the more strange, because, as we saw some time back, the *ruggedness* of the stone is more pleasing to the modern than the mediæval, and he rarely completes any picture satisfactorily to himself unless large spaces of it are filled with irregular masonry, rocky banks, or shingly shores: whereas the mediæval could conceive no desirableness in the loose and unhewn masses; associated them generally in his mind with wicked men, and the Martyrdom of St. Stephen; and always threw them out of his road, or garden, to the best of his power.

Yet with all this difference in predilection, such was the

honesty of the mediæval, and so firm his acknowledgment of the necessity to paint completely whatever was to be painted at all, that there is hardly a strip of earth under the feet of a saint, in any finished work of the early painters, but more, and better painted, stones are to be found upon it than in an entire exhibition full of modern mountain scenery.

- § 3. Not better painted in every respect. In those interesting and popular treatises on the art of drawing, which tell the public that their colours should neither be too warm nor too cold, and that their touches should always be characteristic of the object they are intended to represent, the directions given for the manufacture of stones usually enforce "crispness of outline" and "roughness of texture." And, accordingly, in certain expressions of frangibility, irregular accumulation, and easy resting of one block upon another, together with some conditions of lichenous or mossy texture, modern stone-painting is far beyond the ancient; for these are just the characters which first strike the eye, and enable the foreground to maintain its picturesque influence, without inviting careful examination. The mediæval painter, on the other hand, not caring for this picturesque general effect, nor being in anywise familiar with mountain scenery, perceived in stones, when he was forced to paint them, eminently the characters which they had in common with figures; that is to say, their curved outlines, rounded surfaces, and varieties of delicate colour, and, accordingly, was somewhat too apt to lose their angular and fragmentary character in a series of muscular lines resembling those of an anatomical preparation; for, although in large rocks the cleavable or frangible nature was the thing that necessarily struck him most, the pebbles under his feet were apt to be oval or rounded in the localities of almost all the important schools of Italy. In Lombardy, the mass of the ground is composed of nothing but Alpine gravel, consisting of rolled oval pebbles, on the average about six inches long by four wide—awkward building materials, yet used in ingenious alternation with the bricks in all the lowland Italian fortresses. Besides this universal rotundity, the qualities of

stones which rendered them valuable to the lapidary were forced on the painter's attention by the familiar arts of inlaying and mosaic. Hence, in looking at a pebble, his mind was divided between its roundnesses and its veins; and Leonardo covers the shelves of rock under the feet of St. Anne with variegated agates; while Mantegna often strews the small stones about his mountain caves in a polished profusion, as if some repentant martyr princess had been just scattering her caskets of pearls into the dust.

- § 4. Some years ago, as I was talking of the curvilinear forms in a piece of rock to one of our academicians, he said to me, in a somewhat despondent accent, "If you look for curves, you will see curves; if you look for angles, you will see angles."

The saying appeared to me an infinitely sad one. It was the utterance of an experienced man; and in many ways true, for one of the most singular gifts, or, if abused, most singular weaknesses, of the human mind is its power of persuading itself to see whatever it chooses;—a great gift, if directed to the discernment of the things needful and pertinent to its own work and being; a great weakness, if directed to the discovery of things profitless or discouraging. In all things throughout the world, the men who look for the crooked will see the crooked, and the men who look for the straight will see the straight. But yet the saying was a notably sad one; for it came of the conviction in the speaker's mind that there was in reality *no* crooked and *no* straight; that all so called discernment was fancy, and that men might, with equal rectitude of judgment, and good-deserving of their fellow-men, perceive and paint whatever was convenient to them.

- § 5. Whereas things may always be seen truly by candid people, though never *completely*. No human capacity ever yet saw the whole of a thing; but we may see more and more of it the longer we look. Every individual temper will see something different in it: but supposing the tempers honest, all the differences are there. Every advance in our acuteness of perception will show us something new; but the old and first discerned thing will still be there, not falsified, only modified and enriched by the new perceptions, becoming continually more beautiful in its





48. Bank of Slaty Crystallines .

J. C. Amey, Jr.

The University of







harmony with them, and more approved as a part of the Infinite truth.

- § 6. There are no natural objects out of which more can be thus learned than out of stones. They seem to have been created especially to reward a patient observer. Nearly all other objects in nature can be seen, to some extent, without patience, and are pleasant even in being half seen. Trees, clouds, and rivers are enjoyable even by the careless; but the stone under his foot has for carelessness nothing in it but stumbling: no pleasure is languidly to be had out of it, nor food, nor good of any kind; nothing but symbolism of the hard heart and the unfatherly gift. And yet, do but give it some reverence and watchfulness, and there is bread of thought in it, more than in any other lowly feature of all the landscape.
- § 7. For a stone, when it is examined, will be found a mountain in miniature. The fineness of Nature's work is so great, that, into a single block, a foot or two in diameter, she can compress as many changes of form and structure, on a small scale, as she needs for her mountains on a large one; and, taking moss for forests, and grains of crystal for crags, the surface of a stone, in by far the plurality of instances, is more interesting than the surface of an ordinary hill; more fantastic in form, and incomparably richer in colour,—the last quality being, in fact, so noble in most stones of good birth (that is to say, fallen from the crystalline mountain-ranges), that I shall be less able to illustrate this part of my subject satisfactorily by means of engraving than perhaps any other, except the colour of skies. I say, *shall* be less able, because the beauty of stone surface is in so great a degree dependent on the mosses and lichens which root themselves upon it, that I must place my richest examples in the section on vegetation. For instance, in the plate opposite, though the mass of rock is large and somewhat distant, the effect of it is as much owing to the white spots of silvery lichen in the centre and left, and to the flowing lines in which the darker mosses, growing in the cranny, have arranged themselves beyond, as to the character of the rock itself; nor could the beauty of the whole mass be explained, if we were to approach the least nearer, without more detailed

drawing of this vegetation. For the present I shall only give a few examples of the drawing of stones roughly broken, or worn so as not to be materially affected by vegetation.

- § 8. We have already seen an example of Titian's treatment of mountain crests as compared with Turner's; here is a parallel instance, from Titian, of stones in the bed of a torrent (Fig. 108.),



Fig. 108.

in many ways good and right, and expressing in its writhed and variously broken lines far more of real stone structure than the common water-colour dash of the moderns. Observe, especially, how Titian has understood that the fracture of the stone more or less depends on the undulating grain of its crystalline structure,

following the cavity of the largest stone in the middle of the figure, with concentric lines; and compare in Plate 21. the top of Turner's largest stone on the left.

§ 9. If the reader sees nothing in this drawing (Fig. 108.) that he can like,—although, indeed, I would have him prefer the work of Turner,—let him be assured that he does not yet understand on what Titian's reputation is founded. No painter's name is oftener in the mouth of the ordinary connoisseur, and no painter was ever less understood. His power of colour is indeed perfect, but so is Bonifazio's. Titian's *supremacy* above all the other Venetians, except Tintoret and Veronese, consists in the firm truth of his portraiture, and more or less masterly understanding of the nature of stones, trees, men, or whatever else he took in hand to paint; so that, without some correlative understanding in the spectator, Titian's work, in its highest qualities, must be utterly dead and unappealing to him.

§ 10. I give one more example from the lower part of the same print, (Fig. 109.) in which a stone, with an eddy round it, is nearly as



Fig. 109.

well drawn as it can be in the simple method of the early wood-engraving. Perhaps the reader will feel its truth better by contrast with a fragment or two of modern Idealism. Here, for instance (Fig. 110.), is a group of stones, highly entertaining in their variety of form, out of the subject of "Christian vanquishing



Fig. 110.

Apollyon," in the outlines to the *Pilgrim's Progress*, published by the Art-Union; the idealism being here wrought to a pitch of extraordinary brilliancy by the exciting nature of the subject. Next (Fig. 111.) is another poetical conception, one of Flaxman's,

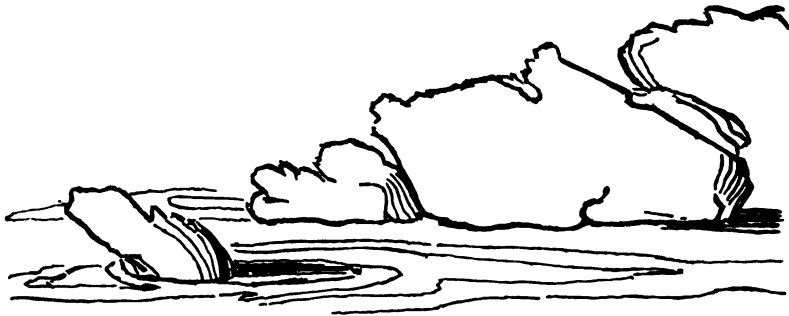


Fig. 111.

representing the eddies and stones of the Pool of Envy (Flaxman's Dante), which may be conveniently compared with the Titianesque stones and streams. And, finally, Fig. 112. repre





Turner and Claude

The Lupton







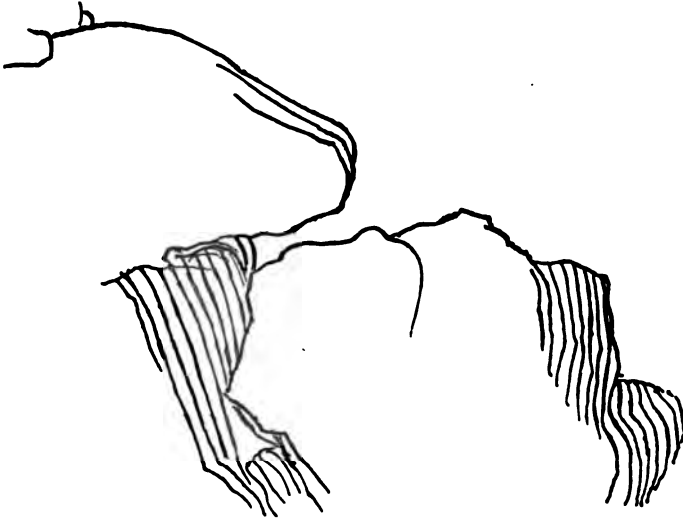


Fig. 112.

sents, also on Flaxman's authority, those stones of an "Alpine" character, of which Dante says that he

"Climbed with heart of proof the adverse steep."

It seems at first curious that every one of the forms that Flaxman has chanced upon should be an impossible one — a form which a stone never could assume: but this is the Nemesis of false idealism, and the inevitable one.

- § 11. The chief incapacity in the modern work is not, however, so much in its outline, though that is wrong enough, as in the total absence of any effort to mark the surface roundings. It is not the *outline* of a stone, however true, that will make it solid or heavy; it is the interior markings, and thoroughly understood perspectives of its sides. In the opposite plate the upper two subjects are by Turner, foregrounds out of the *Liber Studiorum* (Source of Arveron, and Ben Arthur); the lower, by Claude, *Liber Veritatis*, No. 5. I think the reader cannot but feel that the blocks in the upper two subjects are massy and ponderous; in the lower, wholly without weight. If he examine their several treatment, he will find that Turner has perfect imaginative con-

ception of every recess and projection over the whole surface, and *feels* the stone as he works over it; every touch, moreover, being full of tender gradation. But Claude, as he is obliged to hold to his outline in hills, so also clings to it in the stones,—cannot round them in the least, leaves their light surfaces wholly blank, and puts a few patches of dark here and there about their edges, as chance will have it.

§ 12. Turner's way of wedging the stones of the glacier moraine together in strength of disorder, in the upper subject, and his indication of the springing of the wild stems and leafage out of the rents in the boulders of the lower one, will hardly be appreciated unless the reader is *fondly* acquainted with the kind of scenery in question; and I cannot calculate on this being often the case; for few persons ever look at any near detail closely, and perhaps least of all at the heaps of debris which so often seem to encumber and disfigure mountain ground. But for the various reasons just stated (§ 7.), Turner found more material for his power, and more excitement to his invention, among the fallen stones than in the highest summits of mountains; and his early designs, among their thousand excellences and singularities, as opposed to all that had preceded them, count for not one of the least the elaborate care given to the drawing of torrent beds, shaly slopes, and other conditions of stony ground which all canons of art at the period pronounced inconsistent with dignity of composition; a convenient principle, since, of all foregrounds, one of loose stones is beyond comparison the most difficult to draw with any approach to realization. The Turnerian subjects, "Junction of the Greta and Tees" (Yorkshire Series, and illustrations to Scott); "Wycliffe, near Rokeby" (Yorkshire); "Hardraw Fall" (Yorkshire); "Ben Arthur" (Liber Studiorum); "Ulleswater" and the magnificent drawing of the "Upper Fall of the Tees" (England Series), are sufficiently illustrative of what I mean.

§ 13. It is not, however, only in their separate condition, as materials of foreground, that we have to examine the effect of stones; they form a curiously important element of distant landscape in their aggregation on a large scale.

It will be remembered that in the course of the last chapter we wholly left out of our account of mountain lines that group which was called "Lines of Rest." One reason for doing so was that, as these lines are produced by debris in a state of temporary repose, their beauty, or deformity, or whatever character they may possess, is properly to be considered as belonging to stones rather than to rocks.

- § 14. Whenever heaps of loose stones or sand are increased by the continual fall of fresh fragments from above, or diminished by their removal from below, yet not in such mass or with such momentum as entirely to disturb those already accumulated, the materials on the surface arrange themselves in an equable slope, producing a straight line of profile in the bank or cone.

The heap formed by the sand falling in an hour-glass presents, in its straight sides, the simplest result of such a condition; and any heap of sand thrown up by the spade will show the slopes here and there, interrupted only by knotty portions, held together by moisture, or agglutinated by pressure,—interruptions which cannot occur to the same extent on a large scale, unless the soil is really hardened nearly to the nature of rock. As long as it remains incoherent, every removal of substance at the bottom of the heap, or addition of it at the top, occasions a sliding disturbance of the whole slope, which smooths it into rectitude of line; and there is hardly any great mountain mass among the Alps which does not show towards its foundation perfectly regular descents of this nature, often two or three miles long without a break. Several of considerable extent are seen on the left of Plate 46.

- § 15. I call these lines of rest, because, though the bulk of the mass may be continually increasing or diminishing, the line of the profile does not change, being fixed at a certain angle by the nature of the earth. It is usually stated carelessly as an angle of about 45 degrees, but it never really reaches such a slope. I measured carefully the angles of a very large number of slopes of mountain in various parts of the Mont Blanc district. The few examples given in the note below are enough to exhibit the general fact that loose debris lies at various angles up to about

30° or 32°; debris protected by grass or pines may reach 35°, and rocky slopes 40° or 41°, but in continuous lines of rest I never found a steeper angle.<sup>1</sup>

§ 16. I speak of some rocky slopes as lines of rest, because, whenever a mountain side is composed of soft stone which splits and decomposes fast, it has a tendency to choke itself up with the ruins, and gradually to get abraded or ground down towards the debris slope; so that vast masses of the sides of Alpine valleys are formed by ascents of nearly uniform inclination, partly loose, partly of jagged rocks, which break, but do not materially alter the general line of the ground. In such cases the fragments usually have accumulated without disturbance at the foot of the slope, and the pine forests fasten the soil and prevent it from being carried down in large masses. But numerous instances occur in which the mountain is consumed away gradually by its own torrents, not having strength enough to form clefts or precipices, but falling on each side of the ravines into even banks, which slide down from above as they are wasted below.

§ 17. By all these various expedients, Nature secures, in the midst of her mountain curvatures, vast series of perfectly straight lines opposing and relieving them; lines, however, which artists have

|                                                                                                              |       |
|--------------------------------------------------------------------------------------------------------------|-------|
| <sup>1</sup> Small fragments of limestone, five or six inches across, and flattish, sharp,                   | o     |
| angular on edges, and quite loose; slope near fountain of Maglans                                            | - 31½ |
| Somewhat larger stones, nearer Maglans; quite loose                                                          | - 31½ |
| Similar debris, slightly touched with vegetation                                                             | - 35  |
| Debris on southern side of Maglans                                                                           | - 33½ |
| Slope of Montagne de la Côte, at the bottom, as seen from the village of Chamouni                            | - 40½ |
| Average slope of Montagne de Taconay, seen from Chamouni                                                     | - 38  |
| Maximum slope of side of Breven                                                                              | - 41  |
| Slope of debris from ravine of Breven down to the village of Chamouni                                        | 14    |
| Slopes of debris set with pines under Aiguille Verte, seen from Argentière                                   | 36    |
| General slope of Tapia, from Argentière                                                                      | - 34  |
| Slopes of La Côte and Taconay, from Argentière                                                               | - 27½ |
| Profile of Breven, from near the Chapeau (a point commanding the valley of Chamouni in its truest longitude) | - 32½ |
| Average slope of Montanvert, from same point                                                                 | - 39½ |
| Slope of La Côte, same point                                                                                 | - 36½ |
| Eastern slope of Pain de Sucre, seen from Vevay                                                              | - 33  |
| Western " " " "                                                                                              | - 36½ |
| Slope of foot of Dent de Morcles, seen from Vevay                                                            | - 38½ |
| " " Midi, " " "                                                                                              | - 40  |

almost universally agreed to alter or ignore, partly disliking them intrinsically, on account of their formality, and partly because the mind instantly associates them with the idea of mountain decay. Turner, however, saw that this very decay having its use and nobleness, the contours which were significative of it ought no more to be omitted than, in the portrait of an aged man, the furrows on his hand or brow; besides, he liked the lines themselves, for their contrast with the mountain wildness, just as he liked the straightness of sunbeams penetrating the soft waywardness of clouds. He introduced them constantly into his noblest compositions; but in order to the full understanding of their employment in the instance I am about to give, one or two more points yet need to be noticed.

§ 18. Generally speaking, the curved lines of convex *fall* belong to mountains of hard rock, over whose surfaces the fragments *bound* to the valley, and which are worn by wrath of avalanches and wildness of torrents, like that of the Cascade des Pèlerins, described in the note above. Generally speaking, the straight lines of *rest* belong to softer mountains, or softer surfaces and places of mountains, which, exposed to no violent wearing from external force, nevertheless keep slipping and mouldering down spontaneously or receiving gradual accession of material from incoherent masses above them.

§ 19. It follows, farther, that where the gigantic wearing forces are in operation, the stones or fragments of rock brought down by the torrents and avalanches are likely, however hard, to be rounded on all their edges; but where the straight shaly slopes are found, the stones which glide or totter down their surfaces frequently retain all their angles, and form jagged and flaky heaps at the bottom.

And farther, it is to be supposed that the rocks which are habitually subjected to these colossal forces of destruction are in their own mass firm and secure, otherwise they would long ago have given way; but that where the gliding and crumbling surfaces are found without much external violence, it is very possible that the whole framework of the mountain may be full of flaws; and a danger exist of vast portions of its mass

giving way, or slipping down in heaps, as the sand suddenly yields in an hourglass after some moments of accumulation.

- § 20. Hence, generally, in the mind of any one familiar with mountains, the conditions will be associated, on the one hand, of the curved, convex, and overhanging bank or cliff, the roaring torrent, and the rounded boulder of massive stone; and, on the other, of the straight and even slope of bank, the comparatively quiet and peaceful lapse of streams, and the sharp-edged and unworn look of the fallen stones, together with a sense of danger greater, though more occult, than in the wilder scenery.

The drawing of the St. Gothard, which we have so laboriously analyzed, was designed, as before mentioned, from a sketch taken in the year 1843. But with it was made another drawing. Turner brought home in that year a series of sketches taken in the neighbourhood of the pass; among others, one of the Valley of Goldau, covered as it is by the ruins of the Rossberg. Knowing his fondness for fallen stones, I chose this Goldau subject as a companion to the St. Gothard. The plate opposite will give some idea of the resultant drawing.

- § 21. *Some idea only.* It is a subject which, like the St. Gothard, is far too full of detail to admit of reduction; and I hope, therefore, soon to engrave it properly of its real size. It is, besides, more than usually difficult to translate this drawing into black and white, because much of the light on the clouds is distinguished merely by orange or purple colour from the green greys, which, though not darker than the warm hues, have the effect of shade from their coldness, but cannot be marked as shade in the engraving without too great increase of depth. Enough, however, has been done to give some idea of the elements of Turner's design.

- § 22. Detailed accounts of the Rossberg Fall may be found in any ordinary Swiss Guide; the only points we have to notice respecting it are, that the mountain was composed of an indurated gravel, disposed in oblique beds sloping *towards* the valley. A portion of one of these beds gave way, and half filled the valley beneath, burying five villages, together with the principal one of Goldau, and partially choking up a little lake, the streamlets







which supplied it now forming irregular pools among the fallen fragments. I call the rock, and accurately, indurated gravel; but the induration is so complete that the mass breaks *through* the rolled pebbles chiefly composing it, and may be considered as a true rock, only always in its blocks rugged and formless when compared with the crystalline formations. Turner has chosen his position on some of the higher heaps of ruin, looking down towards the Lake of Zug, which is seen under the sunset, the spire of the tower of Aart on its shore just relieved against the light of the waves.

The Rossberg itself, never steep, and still more reduced in terror by the fall of a portion of it, was not available to him as a form *explanatory* of the catastrophe; and even the slopes of the Righi on the left are not, in reality, as uninterrupted in their slope as he has drawn them; but he felt the connection of this structure with the ruin amidst which he stood, and brought the long lines of danger clear against the sunset, and as straight as its own retiring rays.

§ 23. If the reader will now glance back to the St. Gothard subject, as illustrated in the two Plates 21. and 37., and compare it with this of Goldau, keeping in mind the general conclusions about the two great classes of mountain scenery which I have just stated, he will, I hope, at last cease to charge me with enthusiasm in anything that I have said of Turner's imagination, as always instinctively possessive of those truths which lie deepest, and are most essentially linked together, in the expression of a scene. I have only taken two drawings (though these of his best period) for the illustration of all the structures of the Alps which, in the course of half a volume, it has been possible for me to explain; and all my half-volume is abstracted in these two drawings, and that in the most consistent and complete way, as if they had been made on purpose to contain a perfect summary of Alpine truth.

§ 24. There are one or two points connected with them of yet more touching interest. They are the last drawings which Turner ever made with unabated power. The one of the St. Gothard, speaking with strict accuracy, is *the* last drawing; for that of

Goldau, though majestic to the utmost in conception, is less carefully finished, and shows, in the execution of parts of the sky, signs of impatience, caused by the first feeling of decline of strength. Therefore I called the St. Gothard (Vol. III. Ch. xv. § 5.) the last mountain drawing he ever executed with perfect power. But the Goldau is still a noble companion to it, — more solemn in thought, more sublime in colour, and, in certain points of poetical treatment, especially characteristic of the master's mind in earlier days. He was very definitely in the habit of indicating the association of any subject with circumstances of death, especially the death of multitudes, by placing it under one of his most deeply *crimsoned* sunset skies. The colour of blood is thus plainly taken for the leading tone in the storm-clouds above the "Slave-ship." It occurs with similar distinctness in the much earlier picture of Ulysses and Polypheme, in that of Napoleon at St. Helena, and, subdued by softer hues, in the Old Téméraire. The sky of this Goldau is, in its scarlet and crimson, the deepest in tone of all that I know in Turner's drawings. Another feeling, traceable in several of his former works, is an acute sense of the contrast between the careless interests and idle pleasures of daily life, and the state of those whose time for labour, or knowledge, or delight, is passed for ever. There is evidence of this feeling in the introduction of the boys at play in the churchyard of Kirkby Lonsdale, and the boy climbing for his kite among the thickets above the little mountain churchyard of Brignol-banks; it is in the same tone of thought that he has placed here the two figures fishing, leaning against these shattered flanks of rock, — the sepulchral stones of the great mountain Field of Death.

- § 25. Another character of these two drawings, which gives them especial interest as connected with our inquiries into mediæval landscape, is, that they are precisely and accurately illustrative of the two principal ideas of Dante about the Alps. I have already explained the rise of the first drawing out of Turner's early study of the "Male Bolge" of the Splügen and St. Gothard. The Goldau, on the other hand, might have been drawn in purposeful illustration of the lines before referred to (Vol. III. Ch.

XV. § 13.) as descriptive of a "loco *Alpestro*." I give now Dante's own words:

" Qual' è quella ruina, che nel fianco  
Di quà da Trento l'Adice percosse,  
O per tremuoto, o per sostegni manco,  
Che da cima del monte, onde si mosse,  
Al piano è sì la roccia discosciosa  
Che alcuna via darebbe a chi su fosse;  
Cotal di quel burrato era la scesa."

" As is that landlip, ere you come to Trent,  
That smote the flank of Adige, through some stay  
Sinking beneath it, or by earthquake rent;  
For from the summit, where of old it lay,  
Plainwards the broken rock unto the feet  
Of one above it might afford some way;  
Such path adown this precipice we meet." CATLEY.

§ 26. Finally, there are two lessons to be gathered from the opposite conditions of mountain decay, represented in these designs, of perhaps a wider range of meaning than any which were suggested even by the states of mountain strength. In the first, we find the unyielding rock, undergoing no sudden danger, and capable of no total fall, yet, in its hardness of heart, worn away by perpetual trampling of torrent waves, and stress of wandering storm. Its fragments, fruitless and restless, are tossed into ever-changing heaps: no labour of man can subdue them to his service, nor can his utmost patience secure any dwelling-place among them. In this they are the type of all that humanity which, suffering under no sudden punishment or sorrow, remains "stony ground," afflicted, indeed, continually by minor and vexing cares, but only broken by them into fruitless ruin of fatigued life. Of this ground not "corn-giving,"—this "rough valley, neither eared nor sown,"<sup>1</sup> of the common world, it is said, to those who have set up their idols in the wreck of it—

" Among the smooth stones of the stream is thy portion. They, they are thy lot."<sup>2</sup>

<sup>1</sup> Deut. xxi. 4. So Amos, vi. 12: "Shall horses run upon the rock; will one plow here with oxen?"

<sup>2</sup> Isa. lvii. 5, 6.

But, as we pass beneath the hills which have been shaken by earthquake and torn by convulsion, we find that periods of perfect repose succeed those of destruction. The pools of calm water lie clear beneath their fallen rocks, the water-lilies gleam, and the reeds whisper among their shadows; the village rises again over the forgotten graves, and its church-tower, white through the storm-twilight, proclaims a renewed appeal to His protection in whose hand "are all the corners of the earth, and the strength of the hills is His also." There is no loveliness of Alpine valley that does not teach the same lesson. It is just where "the mountain falling cometh to nought, and the rock is removed out of his place," that, in process of years, the fairest meadows bloom between the fragments, the clearest rivulets murmur from their crevices among the flowers, and the clustered cottages, each sheltered beneath some strength of mossy stone, now to be removed no more, and with their pastured flocks around them, safe from the eagle's stoop and the wolf's ravin, have written upon their fronts, in simple words, the mountaineer's faith in the ancient promise —

"Neither shalt thou be afraid of destruction when it cometh;

"For thou shalt be in league with the Stones of the Field; and the beasts of the field shall be at peace with thee."

## CHAPTER XIX.

## THE MOUNTAIN GLOOM.

§ 1. WE have now cursorily glanced over those conditions of mountain structure which appear constant in duration, and universal in extent; and we have found them, invariably, calculated for the delight, the advantage, or the teaching of men; prepared, it seems, so as to contain, alike in fortitude or feebleness, in kindliness or in terror, some beneficence of gift, or profoundness of counsel. We have found that where at first all seemed disturbed and accidental, the most tender laws were appointed to produce forms of perpetual beauty; and that where to the careless or cold observer all seemed severe or purposeless, the well-being of man has been chiefly consulted, and his rightly directed powers, and sincerely awakened intelligence, may find wealth in every falling rock, and wisdom in every talking wave.

It remains for us to consider what actual effect upon the human race has been produced by the generosity, or the instruction of the hills; how far, in past ages, they have been thanked, or listened to; how far, in coming ages, it may be well for us to accept them for tutors, or acknowledge them for friends.

§ 2. What they have already taught us may, one would think, be best discerned in the midst of them,—in some place where they have had their own way with the human soul; where no veil has been drawn between it and them, no contradicting voice has confused their ministries of sound, or broken their pathos of silence: where war has never streaked their streams with bloody foam, nor ambition sought for other throne than their cloud-courtiered pinnacles, nor avarice for other treasure than,

year by year, is given to their unlaborious rocks, in budded jewels, and mossy gold.

- § 3. I do not know any district possessing a more pure or uninterrupted fulness of mountain character (and that of the highest order), or which appears to have been less disturbed by foreign agencies, than that which borders the course of the Trient between Valorsine and Martigny. The paths which lead to it out of the valley of the Rhone, rising at first in steep circles among the walnut trees, like winding stairs among the pillars of a Gothic tower, retire over the shoulders of the hills into a valley almost unknown, but thickly inhabited by an industrious and patient population. Along the ridges of the rocks, smoothed by old glaciers into long, dark, billowy swellings, like the backs of plunging dolphins, the peasant watches the slow colouring of the tufts of moss and roots of herb which, little by little, gather a feeble soil over the iron substance; then, supporting the narrow strip of clinging ground with a few stones, he subdues it to the spade; and in a year or two a little crest of corn is seen waving upon the rocky casque. The irregular meadows run in and out like inlets of lake among these harvested rocks, sweet with perpetual streamlets, that seem always to have chosen the steepest places to come down, for the sake of the leaps, scattering their handfuls of crystal this way and that, as the wind takes them, with all the grace, but with none of the formalism; of fountains; dividing into fanciful change of dash and spring, yet with the seal of their granite channels upon them, as the lightest play of human speech may bear the seal of past toil, and closing back out of their spray to lave the rigid angles, and brighten with silver fringes and glassy films each lower and lower step of sable stone; until at last, gathered altogether again,—except, perhaps, some chance drops caught on the apple-blossom, where it has budded a little nearer the cascade than it did last spring,—they find their way down to the turf, and lose themselves in that, silently; with quiet depth of clear water furrowing among the grass blades, and looking only like their shadow, but presently emerging again in little startled gushes and laughing hurries, as if they had remembered suddenly that the day was too short for them to get down the hill.

Green field, and glowing rock, and glancing streamlet, all slope together in the sunshine towards the brows of ravines, where the pines take up their own dominion of saddened shade; and with everlasting roar in the twilight, the stronger torrents thunder down, pale from the glaciers, filling all their chasms with enchanted cold, beating themselves to pieces against the great rocks that they have themselves cast down, and forcing fierce way beneath their ghastly poise.

The mountain paths stoop to these glens in forky zigzags, leading to some grey and narrow arch, all fringed under its shuddering curve with the ferns that fear the light; a cross of rough-hewn pine, iron-bound to its parapet, standing dark against the lurid fury of the foam. Far up the glen, as we pause beside the cross, the sky is seen through the openings in the pines, thin with excess of light; and, in its clear, consuming flame of white space, the summits of the rocky mountains are gathered into solemn crowns and circlets, all flushed in that strange, faint silence of possession by the sunshine which has in it so deep a melancholy; full of power, yet as frail as shadows; lifeless, like the walls of a sepulchre, yet beautiful in tender fall of crimson folds, like the veil of some sea spirit, that lives and dies as the foam flashes; fixed on a perpetual throne, stern against all strength, lifted above all sorrow, and yet effaced and melted utterly into the air by that last sunbeam that has crossed to them from between the two golden clouds.

- § 4. High above all sorrow: yes; but not unwitnessing to it. The traveller on his happy journey, as his foot springs from the deep turf and strikes the pebbles gaily over the edge of the mountain road, sees with a glance of delight the clusters of nut-brown cottages that nestle among those sloping orchards, and glow beneath the boughs of the pines. Here, it may well seem to him, if there be sometimes hardship, there must be at least innocence and peace, and fellowship of the human soul with nature. It is not so. The wild goats that leap along those rocks have as much passion of joy in all that fair work of God as the men that toil among them. Perhaps more. Enter the street of one of those villages, and you will find it foul with that gloomy foulness that

is suffered only by torpor, or by anguish of soul. Here, it is torpor — not absolute suffering, — not starvation or disease, but darkness of calm enduring; the spring known only as the time of the scythe, and the autumn as the time of the sickle, and the sun only as a warmth, the wind as a chill, and the mountains as a danger. They do not understand so much as the name of beauty, or of knowledge. They understand dimly that of virtue. Love, patience, hospitality, faith, — these things they know. To glean their meadows side by side, so happier; to bear the burden up the breathless mountain flank, uncomplainingly; to bid the stranger drink from their vessel of milk; to see at the foot of their low deathbeds a pale figure upon a cross, dying also, patiently; — in this they are different from the cattle and from the stones, but in all this unrewarded as far as concerns the present life. For them, there is neither hope nor passion of spirit; for them neither advance nor exultation. Black bread, rude roof, dark night, laborious day, weary arm at sunset; and life ebbs away. No books, no thoughts, no attainments, no rest; except only sometimes a little sitting in the sun under the church wall, as the bell tolls thin and far in the mountain air; a pattering of a few prayers, not understood, by the altar rails of the dimly gilded chapel, and so back to the sombre home, with the cloud upon them still unbroken — that cloud of rocky gloom, born out of the wild torrents and ruinous stones, and unlightened, even in their religion, except by the vague promise of some better thing unknown, mingled with threatening, and obscured by an unspeakable horror, — a smoke, as it were, of martyrdom, coiling up with the incense, and, amidst the images of tortured bodies and lamenting spirits in hurtling flames, the very cross, for them, dashed more deeply than for others, with gout of blood.

- § 5. Do not let this be thought a darkened picture of the life of these mountaineers. It is literal fact. No contrast can be more painful than that between the dwelling of any well-conducted English cottager, and that of the equally honest Savoyard. The one, set in the midst of its dull flat fields and uninteresting hedgerows, shows in itself the love of brightness and beauty; its daisy-studded garden-beds, its smoothly swept brick path to the threshold, its freshly sanded floor and orderly shelves



of household furniture, all testify to energy of heart, and happiness in the simple course and simple possessions of daily life. The other cottage, in the midst of an inconceivable, inexpressible beauty, set on some sloping bank of golden sward, with clear fountains flowing beside it, and wild flowers, and noble trees, and goodly rocks gathered round into a perfection as of Paradise, is itself a dark and plague-like stain in the midst of the gentle landscape. Within a certain distance of its threshold the ground is foul and cattle-trampled; its timbers are black with smoke, its garden choked with weeds and nameless refuse, its chambers empty and joyless, the light and wind gleaming and filtering through the crannies of their stones. All testifies that to its inhabitant the world is labour and vanity; that for him neither flowers bloom, nor birds sing, nor fountains glisten; and that his soul hardly differs from the grey cloud that coils and dies upon his hills, except in having no fold of it touched by the sunbeams.

- § 6. Is it not strange to reflect, that hardly an evening passes in London or Paris, but one of those cottages is painted for the better amusement of the fair and idle, and shaded with pasteboard pines by the scene-shifter; and that good and kind people,—poetically minded,—delight themselves in imagining the happy life led by peasants who dwell by Alpine fountains, and kneel to crosses upon peaks of rock? that nightly we lay down our gold, to fashion forth simulacra of peasants, in gay ribands and white bodices, singing sweet songs, and bowing gracefully to the picturesque crosses; and all the while the veritable peasants are kneeling, songlessly, to veritable crosses, in another temper than the kind and fair audiences deem of, and assuredly with another kind of answer than is got out of the opera catastrophe; an answer having reference, it may be, in dim futurity, to those very audiences themselves? If all the gold that has gone to paint the simulacra of the cottages, and to put new songs in the mouths of the simulacra of the peasants, had gone to brighten the existent cottages, and to put new songs in the mouths of the existent peasants, it might in the end, perhaps, have turned out better so, not only for the peasant, but for even the audience. For that form of the False Ideal has also its correspondent True Ideal,

—consisting not in the naked beauty of statues, nor in the gauze flowers and crackling tinsel of theatres, but in the clothed and fed beauty of living men, and in the lights and laughs of happy homes. Night after night, the desire of such an idcal springs up in every idle human heart; and night after night, as far as idleness can, we work out this desire in costly lies. We paint the faded actresses, build the lath landscape, feed our benevolence with fallacies of felicity, and satisfy our righteousness with poetry of justice. The time will come when, as the heavy-folded curtain falls upon our own stage of life, we shall begin to comprehend that the justice we loved was intended to have been done in fact, and not in poetry, and the felicity we sympathised in, to have been bestowed and not feigned. We talk much of money's worth, yet perhaps may one day be surprised to find that what the wise and charitable European public gave to one night's rehearsal of hypocrisy,—to one hour's pleasant warbling of Linda or Lucia,—would have filled a whole Alpine valley with happiness, and poured the waves of harvest over the famine of many a Lammermoor.<sup>1</sup>

<sup>1</sup> As I was correcting this sheet for press, the morning paper containing the account of the burning of Covent Garden theatre furnished the following financial statements, bearing somewhat on the matter in hand; namely,

|                                                          | £             |
|----------------------------------------------------------|---------------|
| That the interior fittings of the theatre, in 1846, cost | - 40,000      |
| That it was opened on the 6th of April, 1847; and        | } 34,756      |
| that in 1848 the loss upon it was                        |               |
| in 1849       "       "                                  | - 25,455      |
|                                                          | <hr/> 100,211 |

|                                                | £            |
|------------------------------------------------|--------------|
| And that in one year the vocal department cost | 33,349       |
| the ballet       "       "                     | 8,105        |
| the orchestra   "       "                      | 10,048       |
|                                                | <hr/> 51,502 |

Mr. Albano afterwards corrected this statement, substituting 27,000 for 40,000; and perhaps the other sums may also have been exaggerated, but I leave the reader to consider what an annual expenditure of from 30,000 to 50,000*l.* might effect in practical idealism in general, whether in Swiss valleys or elsewhere. I am not one of those who regard all theatrical entertainment as wrong or harmful. I only regret seeing our theatres so conducted as to involve an expense which is worse than useless, in leading our audiences to look for mere stage effect, instead of good acting, good singing, or

§ 7. "Nay," perhaps the reader answers, "it is vain to hope that this could ever be. The perfect beauty of the ideal must always be fictitious. It is rational to amuse ourselves with the fair imagination; but it would be madness to endeavour to put it into practice, in the face of the ordinances of Nature. Real shepherdesses must always be rude, and real peasants miserable; suffer us to turn away our gentle eyes from their coarseness and their pain, and to seek comfort in cultivated voices and purchased smiles. We cannot hew down the rocks, nor turn the sands of the torrent into gold."

§ 8. This is no answer. Be assured of the great truth—that what is impossible in reality, is ridiculous in fancy. If it is not in the nature of things that peasants should be gentle and happy, then the imagination of such peasantry is ridiculous, and to

good sense. If we really loved music, or the drama, we should be content to hear well-managed voices, and see finished acting, without paying five or six thousand pounds to dress the songsters or decorate the stage. Simple but well-chosen dresses, and quiet landscape exquisitely painted, would have far more effect on the feelings of any sensible audience than the tinsel and extravagance of our common scenery; and our actors and actresses must have little respect for their own powers, if they think that dignity of gesture is dependent on the flash of jewellery, or the pathos of accents connected with the costliness of silk. Perfect execution of music by a limited orchestra is far more delightful, and far less fatiguing, than the irregular roar and hum of multitudinous mediocrity; and finished instrumentation by an adequate number of performers, exquisite acting, and sweetest singing, might be secured for the public at a fourth part of the cost now spent on operatic absurdities. There is no occasion whatever for decoration of the house; it is, on the contrary, the extreme of vulgarity. No person of good taste ever goes to a theatre to look at the fronts of the boxes. Comfortable and roomy seats, perfect cleanliness, decent and fitting curtains and other furniture, of good stuff, but neither costly nor tawdry, and convenient, but not dazzling, light, are the proper requirements in the furnishing of an opera-house. As for the persons who go there to look at each other—to show their dresses—to yawn away waste hours—to obtain a maximum of momentary excitement—or to say they were there, at next day's three o'clock breakfast (and it is only for such persons that glare, cost, and noise are necessary), I commend to their consideration, or at least to such consideration as is possible to their capacities, the suggestions in the text. But to the true lovers of the drama I would submit, as another subject of inquiry, whether they ought not to separate themselves from the mob, and provide, for their own modest, quiet, and guiltless entertainment, the truth of heartfelt impersonation, and the melody of the unforced and delicate voice, without extravagance of adjunct, unhealthy lateness of hours, or appeal to degraded passions. Such entertainment might be obtained at infinitely smaller cost, and yet at a price which would secure honourable and permanent remuneration to every performer; and I am mistaken in my notion of the best actors, if they would not rather play at a house where people went to hear and to feel, than weary themselves, even for four times the pay, before an audience insulting in its listlessness and ignorant in its applause.

delight in such imagination, wrong; as delight in any kind of falsehood is always. But if in the nature of things it be possible that among the wildness of hills the human heart should be refined, and if the comfort of dress, and the gentleness of language, and the joy of progress in knowledge, and of variety in thought, are possible to the mountaineer in his true existence, let us strive to write this true poetry upon the rocks before we indulge it in our visions, and try whether, among all the fine arts, one of the finest be not that of painting cheeks with health rather than rouge.

- § 9. "But is such refinement possible? Do not the conditions of the mountain peasant's life, in the plurality of instances, necessarily forbid it?"

As bearing sternly on this question, it is necessary to examine one peculiarity of feeling which manifests itself among the European nations, so far as I have noticed, irregularly,—appearing sometimes to be the characteristic of a particular time, sometimes of a particular race, sometimes of a particular locality, and to involve at once much that is to be blamed and much that is praiseworthy. I mean the capability of enduring, or even delighting in, the contemplation of objects of terror—a sentiment which especially influences the temper of some groups of mountaineers, and of which it is necessary to examine the causes, before we can form any conjecture whatever as to the real effect of mountains on human character.

- § 10. For instance, the unhappy alterations which have lately taken place in the town of Lucerne have still spared two of its ancient bridges; both of which, being long covered walks, appear, in past times, to have been to the population of the town what the Mall was to London, or the Gardens of the Tuileries are to Paris. For the continual contemplation of those who sauntered from pier to pier, pictures were painted on the woodwork of the roof. These pictures, in the one bridge, represent all the important Swiss battles and victories; in the other they are the well-known series of which Longfellow has made so beautiful a use in the Golden Legend, the *Dance of Death*.

Imagine the countenances with which a committee, appointed

for the establishment of a new "promenade" in some flourishing modern town, would receive a proposal to adorn such promenade with pictures of the Dance of Death!

§ 11. Now just so far as the old bridge at Lucerne, with the pure, deep, and blue water of the Reuss eddying down between its piers, and with the sweet darkness of green hills, and far-away gleaming of lake and Alps alternating upon the eye on either side; and the gloomy lesson frowning in the shadow, as if the deep tone of a passing-bell, overhead, were mingling for ever with the plashing of the river as it glides by beneath; just so far, I say, as this differs from the straight and smooth strip of level dust, between two rows of round-topped acacia trees, wherein the inhabitants of an English watering-place or French fortified town take their delight,—so far I believe the life of the old Lucernois, with all its happy waves of light, and mountain strength of will, and solemn expectation of eternity, to have differed from the generality of the lives of those who saunter for their habitual hour up and down the modern promenade. But the gloom is not always of this noble kind. As we penetrate farther among the hills we shall find it becoming very painful. We are walking, perhaps, in a summer afternoon, up the valley of Zermatt (a German valley), the sun shining brightly on grassy knolls and through fringes of pines, the goats leaping happily, and the cattle bells ringing sweetly, and the snowy mountains shining like heavenly castles far above. We see, a little way off, a small white chapel, sheltered behind one of the flowery hillocks of mountain turf; and we approach its little window, thinking to look through it into some quiet home of prayer; but the window is grated with iron, and open to the winds, and when we look through it, behold—a heap of white human bones mouldering into whiter dust!

So also in that same sweet valley, of which I have just been speaking, between Chamouni and the Valais, at every turn of the pleasant pathway, where the scent of the thyme lies richest upon its rocks, we shall see a little cross and shrine set under one of them; and go up to it, hoping to receive some happy thought of the Redeemer, by whom all these lovely things were

made, and still consist. But when we come near—behold, beneath the cross, a rude picture of souls tormented in red tongues of hell fire, and pierced by demons.

- § 12. As we pass towards Italy the appearance of this gloom deepens; and when we descend the southern slope of the Alps we shall find this bringing forward of the image of Death associated with an endurance of the most painful aspects of disease; so that conditions of human suffering, which in any other country would be confined in hospitals, are permitted to be openly exhibited by the wayside; and with this exposure of the degraded human form is farther connected an insensibility to ugliness and imperfection in other things; so that the ruined wall, neglected garden, and uncleansed chamber, seem to unite in expressing a gloom of spirit possessing the inhabitants of the whole land. It does not appear to arise from poverty, nor careless contentment with little: there is here nothing of Irish recklessness or humour; but there seems a settled obscurity in the soul,—a chill and plague, as if risen out of a sepulchre, which partly deadens, partly darkens, the eyes and hearts of men, and breathes a leprosy of decay through every breeze and every stone. “Instead of well-set hair, baldness, and burning instead of beauty.”

Nor are definite proofs wanting that the feeling is independent of mere poverty or indolence. In the most gorgeous and costly palace garden the statues will be found green with moss, the terraces defaced or broken; the palace itself, partly coated with marble, is left in other places rough with cementless and jagged brick, its iron balconies bent and rusted, its pavements overgrown with grass. The more energetic the effort has been to recover from this state, and to shake off all appearance of poverty, the more assuredly the curse seems to fasten on the scene, and the unslaked mortar, and unfinished wall, and ghastly desolation of incompleteness entangled in decay, strike a deeper despondency into the beholder.

- § 13. The feeling would be also more easily accounted for if it appeared consistent in its regardlessness of beauty,—if what was *done* were altogether as inefficient as what was deserted. But

the balcony, though rusty and broken, is delicate in design, and supported on a nobly carved slab of marble; the window, though a mere black rent in ragged plaster, is encircled by a garland of vine and fronted by a thicket of the sharp leaves and aurora-coloured flowers of the oleander; the courtyard, overgrown by mournful grass, is terminated by a bright fresco of gardens and fountains; the corpse, borne with the bare face to heaven, is strewn with flowers; beauty is continually mingled with the shadow of death.

§ 14. So also is a kind of merriment,—not true cheerfulness, neither careless or idle jesting, but a determined effort at gaiety, a resolute laughter, mixed with much satire, grossness, and practical buffoonery, and, it always seemed to me, void of all comfort or hope,—with this eminent character in it also, that it is capable of touching with its bitterness even the most fearful subjects, so that as the love of beauty retains its tenderness in the presence of death, this love of jest also retains its boldness, and the skeleton becomes one of the standard masques of the Italian comedy. When I was in Venice, in 1850, the most popular piece of the *comic* opera was “Death and the Cobbler,” in which the point of the plot was the success of a village cobbler as a physician, in consequence of the appearance of Death to him beside the bed of every patient who was not to recover; and the most applauded scene in it was one in which the physician, insolent in success, and swollen with luxury, was himself taken down into the abode of Death, and thrown into an agony of terror by being shown lives of men, under the form of wasting lamps, and his own ready to expire.

§ 15. I have also not the smallest doubt that this endurance or affronting of fearful images is partly associated with indecency, partly with general fatuity and weakness of mind. The men who applauded loudest when the actress put on, in an instant, her mask representing a skull, and when her sharp and clear “*Sono la Morte*” rang through the theatre, were just those whose disgusting habits rendered it impossible for women to pass through some of the principal streets in Venice,—just those who formed the gaping audience, when a mountebank offered a new quack medi-

cine on the Riva dei Schiavoni. And, as fearful imagery is associated with the weakness of fever, so it seems to me that imbecility and love of terror are connected by a mysterious link throughout the whole life of man. There is a most touching instance of this in the last days of Sir Walter Scott, the publication of whose latter works, deeply to be regretted on many accounts, was yet, perhaps, on the whole, right, as affording a means of studying the conditions of the decay of overwrought human intellect in one of the most noble of minds. Among the many signs of this decay at its uttermost, in *Castle Dangerous*, not one of the least notable was the introduction of the knight who bears on his black armour the likeness of a skeleton.

- § 16. The love of horror which is in this manner connected with feebleness of intellect, is not, however, to be confounded with that shown by the vulgar in general. The feeling which is calculated upon in the preparation of pieces full of terror and crime, at our lower theatres, and which is fed with greater art and elegance in the darker scenery of the popular French novelists, however morally unhealthy, is not *unnatural*; it is not the result of an apathy to such horror, but of a strong desire for excitement in minds coarse and dull, but not necessarily feeble. The scene of the murder of the jeweller in the "*Count of Monte Cristo*," or those with the *Squelette* in the "*Mystères de Paris*," appeal to instincts which are as common to all mankind as those of thirst and hunger, and which are only debasing in the exaggerated condition consequent upon the dulness of other instincts higher than they. And the persons who, at one period of their life, might take chief pleasure in such narrations, at another may be brought into a temper of high tone and acute sensibility. But the love of horror respecting which we are now inquiring appears to be an unnatural and feeble feeling; it is not that the person needs excitement, or has any such strong perceptions as would cause excitement, but he is dead to the horror, and a strange evil influence guides his feebleness of mind rather to fearful images than to beautiful ones,—as our disturbed dreams are sometimes filled with ghastlinesses which seem not to arise out of any conceivable association of our waking ideas, but to be a vapour out



of the very chambers of the tomb, to which the mind, in its palsy, has approached.

§ 17. But even this imbecile revelling in terror is more comprehensible, more apparently natural, than the instinct which is found frequently connected with it, of absolute joy in *ugliness*. In some conditions of old German art we find the most singular insisting upon what is in all respects ugly and abortive, or frightful; not with any sense of sublimity in it, neither in mere foolishness, but with a resolute choice, such as I can completely account for on no acknowledged principle of human nature. For in the worst conditions of sensuality there is yet some perception of the beautiful, so that men utterly depraved in principle and habits of thought will yet admire beautiful things, and fair faces. But in the temper of which I am now speaking there is no preference even of the lower forms of loveliness; no effort at painting fair limbs or passionate faces, no evidence of any human or natural sensation, — a mere feeding on decay and rolling in slime, not apparently or conceivably with any pleasure in it, but under some fearful possession of an evil spirit.

§ 18. The most wonderful instance of this feeling at its uttermost which I remember, is the missal in the British Museum, Harl. MSS. 1892. The drawings of the principal subjects in it appear to have been made first in black, by Martin Schöngauer (at all events by some copyist of his designs), and then another workman has been employed to paint these drawings over. No words can describe the intensity of the "plague of the heart" in this man; the reader should examine the manuscript carefully if he desires to see how low human nature can sink. I had written a description of one or two of the drawings in order to give some conception of them to persons not able to refer to the book; but the mere description so saddened and polluted my pages that I could not retain it. I will only, therefore, name the principal characteristics which belong to the workman's mind.

§ 19. First, Perpetual tampering with death, whether there be occasion to allude to it or not, — especially insisting upon its associations with corruption. I do not pain the reader by dwelling on the details illustrative of this feeling.

Secondly, Delight in dismemberment, dislocation, and distortion of attitude. Distortion, to some extent, is a universal characteristic of the German fifteenth and sixteenth century art; that is to say, there is a general aptitude for painting legs across, or feet twisted round, or bodies awkwardly bent, rather than anything in a natural position; and Martin Schöngauer himself exhibits this defect in no small degree. But here the finishing workman has dislocated nearly every joint which he has exposed, besides knitting and twisting the muscles into mere knots of cordage.

What, however, only amounts to dislocation in the limbs of the human figures, becomes actual dismemberment in the animals. Fig. 113. is a faithful copy of a tree with two *birds*, one on its bough, and one above it, seen in the background, behind a soldier's mace, in the drawing of the Betrayal. In the engraving of this subject, by Schöngauer himself, the mace does not occur; it has been put in by the finishing workman, in order to give greater expression of savageness to the boughs of the tree, which, joined with the spikes of the mace, form one mass of disorganized angles and thorns, while the birds look partly as if being torn to pieces, and partly like black spiders.



Fig. 113.

In the painting itself the sky also is covered with little detached and bent white strokes, by way of clouds, and the hair of the figures torn into ragged locks, like wood rent by a cannon shot.

This tendency to dismember and separate everything is one of the eminent conditions of a mind leaning to vice and ugliness; just as to connect and harmonize everything is that of a mind leaning to virtue and beauty. It is shown down to the smallest

details; as, for instance, in the spotted backgrounds, which, instead of being chequered with connected patterns, as in the noble manuscripts (see Vol. III. Plate 7.), are covered with disorderly dashes and circles executed with the blunt pen or brush, Fig. 114. And one of the borders is composed of various detached heads, cut off at the neck or shoulders without the slightest endeavour to conceal or decorate the truncation. All this, of course, is associated with choice of the most abominable features in the countenance.

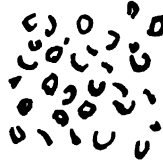


Fig. 114.

- § 20. Thirdly, Pure ignorance. Necessarily such a mind as this must be incapable of perceiving the truth of any form; and therefore together with the distortion of all studied form is associated the utter negation or imperfection of that which is less studied.

Fourthly, Delight in blood. I cannot use the words which would be necessary to describe the second<sup>1</sup> painting of the Scourging, in this missal. But I may generally notice that the degree in which the peculiar feeling we are endeavouring to analyze is present in any district of Roman Catholic countries, may be almost accurately measured by the quantity of blood represented on the crucifixes.

The person employed to repaint, in the Campo Santo of Pisa, the portion of Orcagna's pictures representing the Inferno, has furnished a very notable example of the same feeling; and it must be familiar to all travellers in countries thoroughly subjected to *modern* Romanism, a thing as different from thirteenth-century Romanism as a prison from a prince's chamber.

Lastly, Utter absence of inventive power. The only ghastliness which this workman is capable of is that of distortion. In ghastly *combination* he is impotent; he cannot even understand it or copy it when set before him, continually destroying any that exists in the drawings of Schöngauer.

- § 21. Such appear to be the principal component elements in the

<sup>1</sup> There are, unusually, two paintings of this subject, the first representing the preparations for the scourging, the second its close.

mind of the painter of this missal, and it possesses these in complete abstraction from nearly all others, showing, in deadly purity, the nature of the venom which in ordinary cases is tempered by counteracting elements. There are even certain feelings, evil enough themselves, but more *natural* than these, of which the slightest mingling would here be a sort of redemption. Vanity, for instance, would lead to a more finished execution, and more careful copying from nature, and of course subdue the ugliness by fidelity; love of pleasure would introduce occasionally a graceful or sensual form; malice would give some point and meaning to the bordering grotesques, nay, even insanity might have given them some inventive horror. But the pure mortiferousness of this mind, capable neither of patience, fidelity, grace, or wit, in any place, or from any motive, — this horrible apathy of brain, which cannot ascend so high as insanity, but is capable only of putrefaction, save us the task of all analysis, and leave us only that of examining how this black aqua Tophana mingles with other conditions of mind.

- § 22. For I have led the reader over this dark ground, because it was essential to our determination of the influence of mountains that we should get what data we could as to the extent in other districts, and derivation from other causes, of the horror which at first we might have been led to connect too arbitrarily with hill scenery. And I wish that my knowledge permitted me to trace it over wider ground, for the observations hitherto stated leave the question still one of great difficulty. It might appear, to a traveller crossing and recrossing the Alps between Switzerland and Italy, that the main strength of the evil lay on the south of the chain, and was attributable to the peculiar circumstances and character of the Italian nation at this period. But as he examined the matter farther he would note that in the districts of Italy generally supposed to be *healthy*, the evidence of it was less, and that it seemed to gain ground in places exposed to malaria, centralizing itself in the Val d'Aosta. He would then, perhaps, think it inconsistent with justice to lay the blame on the mountains, and transfer his accusation to the marshes, yet would be compelled to admit that the evil manifested itself most where

these marshes were surrounded by hills. He would next, probably, suppose it produced by the united effect of hardship, solitude, and unhealthy air; and be disposed to find fault with the mountains, at least so far as they required painful climbing and laborious agriculture;—but would again be thrown into doubt by remembering that one main branch of the feeling,—the love of ugliness, seemed to belong in a peculiar manner to Northern Germany. If at all familiar with the art of the North and South, he would perceive that the *endurance* of ugliness, which in Italy resulted from languor or depression (while the mind yet retained some apprehension of the difference between fairness and deformity, as above noted in § 12.), was not to be confounded with that absence of perception of the Beautiful, which introduced a general hard-featuredness of figure into all German and Flemish early art, even when Germany and Flanders were in their brightest national health and power. And as he followed out in detail the comparison of all the purest ideals north and south of the Alps, and perceived the perpetual contrast existing between the angular and bony sanctities of the one latitude, and the drooping graces and pensive pieties of the other, he would no longer attribute to the ruggedness, or miasma, of the mountains the origin of a feeling which showed itself so strongly in the comfortable streets of Antwerp and Nuremberg, and in the unweakened and active intellects of Van Eyck and Albert Durer.

§ 23. As I think over these various difficulties, the following conclusions seem to me deducible from the data I at present possess. I am in no wise confident of their accuracy, but they may assist the reader in pursuing the inquiry farther.

Conditions  
which produce  
the Mountain  
gloom.

I. It seems to me, first, that a fair degree of intellect and imagination is necessary before this kind of disease is possible. It does not seize on merely stupid peasantries, but on those which belong to intellectual races, and in whom the faculties of imagination and the sensibilities of heart were originally strong and tender. In flat land, with fresh air, the peasantry may be almost mindless, but not infected with this gloom.

General  
power of in-  
tellect.

II. In the second place, I think it is closely connected with the Romanist religion, and that for several causes.

Romanism.

A. The habitual use of bad art (ill-made dolls and bad pictures), in the services of religion, naturally blunts the delicacy of the senses, by requiring reverence to be paid to ugliness, and familiarizing the eye to it in moments of strong and pure feeling; I do not think we can overrate the probable evil results of this enforced discordance between the sight and imagination.

B. The habitually dwelling on the penances, tortures, and martyrdoms of the Saints, as subjects of admiration and sympathy, together with much meditation on Purgatorial suffering; rendered almost impossible to Protestants by the greater fearfulness of such reflections, when the punishment is supposed eternal.

C. Idleness, and neglect of the proper duties of daily life, during the large number of holidays in the year, together with want of proper cleanliness, induced by the idea that comfort and happy purity are less pleasing to God than discomfort and self-degradation. This indolence induces much despondency, a larger measure of real misery than is necessary under the given circumstances of life, and many forms of crime and disease besides.

D. Superstitious indignation. I do not know if it is as a result of the combination of these several causes, or if under a separate head, that I should class a certain strange awe which seems to attach itself to Romanism like its shadow, differing from the coarser gloom which we have been examining, in that it can attach itself to minds of the highest purity and keenness, and, indeed, does so to these more than to inferior ones. It is an indefinable pensiveness, leading to great severity of precept, mercilessness in punishment, and dark or discouraging thoughts of God and man.<sup>1</sup>

It is connected partly with a greater belief in the daily presence and power of evil spirits than is common in Protestants (except the more enthusiastic, and *also gloomy*, sects of Puritans), connected also with a sternness of belief in the condemnatory power and duty of the Church, leading to persecution, and to less tempered indignation at oppositions of opinion than characterizes the Protestant

<sup>1</sup> This character has, I think, been traced in the various writings of Mrs. Sherwood better than in any others; she has a peculiar art of making it felt, and of striking the deep tone of it as from a passing-bell, contrasting it with the most cheerful, lovely, and sincere conditions of Protestantism.

mind ordinarily, which, though waspish and bitter enough, is not liable to the peculiar heart-burning caused in a Papist by any insult to his Church, or by the aspect of what he believes to be heresy.

- § 24. For all these reasons, I think Romanism is very definitely connected with the gloom we are examining, so as without fail to produce some measure of it in all persons who sincerely hold that faith; and if such effect is ever not to be traced, it is because the Romanism is checked by infidelity. The atheism or dissipation of a large portion of the population in crowded capitals prevents this gloom from being felt in full force; but it resumes its power, in mountain solitudes, over the minds of the comparatively ignorant and more suffering peasantry; so that it is not an evil inherent in the hills themselves, but one result of the continuance in them of that old religious voice of warning, which, encouraging sacred feeling in general, encourages also whatever evil may essentially belong to the form of doctrine preached among them.

- § 25. III. It is assuredly connected also with a diseased state of health. Cheerfulness is just as natural to the heart of a man in strong health as colour to his cheek; and wherever there is habitual gloom, there must be either bad air, unwholesome food, improperly severe labour, or erring habits of life. Among mountains, all these various causes are frequently found in combination. The air is either too bleak, or it is impure; generally the peasants are exposed to alternations of both. Great hardship is sustained in various ways, severe labour undergone during summer, and a sedentary and confined life led during winter. Where the gloom exists in less elevated districts, as in Germany, I do not doubt, though I have not historical knowledge enough to prove this, that it is partly connected with habits of sedentary life, protracted study, and general derangement of the bodily system in consequence; when it exists in the gross form exhibited in the manuscript above examined, I have no doubt it has been fostered by habits of general vice, cruelty, and dissipation.

- § 26. IV. Considered as a natural insensibility to beauty, it is, I imagine, indicative of a certain want of cultivation in the race among whom it is found, perhaps without corporal or mental

Disease of  
body.

Rudeness of  
life.

weakness, but produced by rudeness of life, absence of examples of beautiful art, defects in the mould of the national features, and such other adversities, generally belonging to northern nations as opposed to southern. Here, however, again my historical knowledge is at fault, and I must leave the reader to follow out the question for himself, if it interests him. A single example may be useful to those who have not time for investigation, in order to show the kind of difference I mean.



Fig. 115.

Fig. 115. is a St. Peter, from a German fifteenth-century MS., of good average execution; and Fig. 116. a Madonna, either of the best English, or second-rate French, work, from a service-book executed in 1290. The reader will, I doubt not, perceive at once the general grace and tenderness of sentiment in the lines of the drapery of the last, and the comparatively delicate type of features. The hardnesses of line, gesture, and feature in the German example, though two centuries at least later, are, I think, equally notable. They are accompanied in the rest of the MS. by an excessive coarseness in choice of ornamental subject: beneath a female figure typical of the Church, for instance, there



is painted a carcass, just butchered, and hung up with skewers through the legs.

- § 27. V. In many high mountain districts, not only are the inhabitants likely to be hurt by hardship of life, and retarded by roughness of manners, but their eyes are familiarized with certain conditions of ugliness and disorder, produced by the violence of the elements around them. Once accustomed to look upon these conditions as inevitable in nature, they may easily transfer the



Fig. 116.

idea of inevitableness and fitness to the same appearances in their own houses. I said that mountains seem to have been created to show us the perfection of beauty ; but we saw in the tenth chapter that they also show sometimes the extreme of ugliness : and to the inhabitants of districts of this kind it is almost necessary to their daily comfort that they should view without dislike aspects of desolation which would to others be frightful. And can we blame them, if, when the rivers are continually loading their fields with heaps of black slime, and rolling, in time of flood, over the thickets on their islets, leaving, when the flood is past, every leaf and bough dim with granite-dust,—never more to be green through

all the parching of summer ; when the landslip leaves a ghastly scar among the grassy mounds of the hill side ;—the rocks above are torn by their glaciers into rifts and wounds that are never healed ; and the ice itself blackened league after league with loose ruin cast upon it as if out of some long and foul excavation ;—can we blame, I say, the peasant, if, beholding these things daily as necessary appointments in the strong nature around him, he is careless that the same disorders should appear in his household or his farm ; nor feels discomforted, though his walls should be full of fissures like the rocks, his furniture covered with dust like the trees, and his garden like the glacier in unsightliness of trench and desolation of mound ?

§ 28. Under these five heads are embraced, as far as I am able to trace them, the causes of the temper which we are examining ; and it will be seen that only the last is quite peculiar to mountain and marsh districts, although there is a somewhat greater probability that the others also may be developed among hills more than in plains. When, by untoward accident, all are associated, and the conditions described under the fifth head are very distinct, the result is even sublime in its painfulness. Of places subjected to such evil influence, none are quite so characteristic as the town of Sion in the Valais. In the first place (see § 23.), the material on which it works is good ; the race of peasantry being there both handsome and intelligent, as far as they escape the adverse influences around them ; so that on a fête-day or a Sunday, when the families come down from the hill châteaux, where the air is healthier, many very pretty faces may be seen among the younger women, set off by somewhat more pains in adjustment of the singular Valaisan costume than is now usual in other cantons of Switzerland.

§ 29. Secondly, it is a bishopric, and quite the centre of Romanism in Switzerland, all the most definite Romanist doctrines being evidently believed sincerely, and by a majority of the population ; Protestantism having no hold upon them at all ; and republican infidelity, though active in the councils of the commune, having as yet, so far as I could see, little influence in the hearts of households. The prominence of the Valais among Roman Ca-

tholic states has always been considerable. The Cardinal of Sion was, of old, one of the personages most troublesome to the Venetian ambassadors at the English Court.<sup>1</sup>

§ 30. Thirdly, it is in the midst of a marshy valley, pregnant with various disease; the water either stagnant, or disgorged in wild torrents charged with earth; the air, in the morning, stagnant also, hot, close, and infected; in the afternoon, rushing up from the outlet at Martigny in fitful and fierce whirlwind; one side of the valley in almost continual shade, the other (it running east and west) scorched by southern sun, and sending streams of heat into the air all night long from its torrid limestones; while less traceable plagues than any of these bring on the inhabitants, at a certain time of life, violent affections of goitre, and often, in infancy, cretinism. Agriculture is attended with the greatest difficulties and despondencies; the land which the labour of a life has just rendered fruitful, is often buried in an hour; and the carriage of materials, as well as the traversing of land on the steep hill sides, attended with extraordinary fatigue.

§ 31. Owing to these various influences, Sion, the capital of the district, presents one of the most remarkable scenes for the study of the particular condition of human feeling at present under consideration that I know among mountains. It consists of little more than one main street, winding round the roots of two ridges of crag, and branching, on the side towards the rocks, into a few narrow lanes, on the other, into spaces of waste ground, of which part serve for military exercises, part are enclosed in an uncertain and vague way; a ditch half-filled up, or wall half-broken down, seeming to indicate their belonging, or having been intended to belong, to some of the unfinished houses which are springing up amidst their weeds. But it is difficult to say, in any part of the town, what is garden-ground or what is waste; still more, what is new building and what old. The houses have been for the most part built roughly of the coarse limestone of the neighbouring hills, then coated with plaster, and

<sup>1</sup> See "Four Years at the Court of Henry VIII." (Dispatches of the Venetian ambassador Giustinian, translated by Mr. Rawdon Brown,) 1854.

painted, in imitation of Palladian palaces, with grey architraves and pilasters, having draperies from capital to capital. With this false decoration is curiously contrasted a great deal of graceful, honest, and original ironwork, in bulging balconies, and floreted gratings of huge windows, and branching sprays, for any and every purpose of support or guard. The plaster, with its fresco, has in most instances dropped away, leaving the houses peeled and scarred; daubed into uncertain restoration with new mortar, and in the best cases thus left; but commonly fallen also, more or less, into ruin, and either roofed over at the first story when the second has fallen, or hopelessly abandoned; — not pulled down, but left in white and ghastly shells to crumble into heaps of limestone and dust, a pauper or two still inhabiting where inhabitation is possible. The lanes wind among these ruins; the blue sky and mountain grass are seen through the windows of their rooms and over their partitions, on which old gaudy papers flaunt in rags: the weeds gather, and the dogs scratch about their foundations; yet there are no luxuriant weeds, for their ragged leaves are blanched with lime, crushed under perpetually falling fragments, and worn away by listless standing of idle feet. There is always mason's work doing, always some fresh patching and whitening; a dull smell of mortar, mixed with that of stale foulness of every kind, rises with the dust, and defiles every current of air; the corners are filled with accumulations of stones, partly broken, with crusts of cement sticking to them, and blotches of nitre oozing out of their pores. The lichenous rocks and sunburnt slopes of grass stretch themselves hither and thither among the wreck, curiously traversed by stairs and walls and half-cut paths, that disappear below starkly black arches, and cannot be followed, or rise in windings round the angles, and in unfenced slopes along the fronts, of the two masses of rock which bear, one the dark castle, the other the old church and convent of Sion; beneath, in a rudely inclosed square at the outskirts of the town, a still more ancient Lombardic church raises its grey tower, a kind of esplanade extending between it and the Episcopal palace, and laid out as a plot of grass, intersected by gravel walks; but the grass,

in strange sympathy with the inhabitants, will not grow *as* grass, but chokes itself with a network of grey weeds, quite wonderful in its various expression of thorny discontent and savageness; the blue flower of the borage, which mingles with it in quantities, hardly interrupting its character, for the violent black spot in the centre of its blue takes away the tenderness of the flower, and it seems to have grown there in some supernatural mockery of its old renown of being good against melancholy. The rest of the herbage is chiefly composed of the dwarf mallow, the wild succory, the wall-rocket, goose-foot, and milfoil<sup>1</sup>; plants, nearly all of them, jagged in the leaf, broken and dimly clustered in flower, haunters of waste ground and places of outcast refuse.

Beyond this plot of ground the Episcopal palace, a half-deserted, barrack-like building, overlooks a *neglected vineyard*, of which the clusters, black on the under side, snow-white on the other with lime-dust, gather around them a melancholy hum of flies. Through the arches of its trelliswork the avenue of the great valley is seen in descending distance, enlarged with line beyond line of tufted foliage, languid and rich, degenerating at last into leagues of grey Maremma, wild with the thorn and the willow; on each side of it, sustaining themselves in mighty slopes and unbroken reaches of colossal promontory, the great mountains secede into supremacy through rosy depths of burning air, and the crescents of snow gleam over their dim summits, as — if there could be Mourning, as once there was War, in Heaven — a line of waning moons might be set for lamps along the sides of some sepulchral chamber in the Infinite.

§ 32. I know not how far this universal grasp of the sorrowful spirit might be relaxed if sincere energy were directed to amend the ways of life of the Valaisan. But it has always appeared to me that there was, even in more healthy mountain districts, a certain degree of inevitable melancholy; nor could I ever escape from the feeling that here, where chiefly the beauty of God's working

<sup>1</sup> *Malva rotundifolia*, *Cichorium Intybus*, *Sisymbrium tenuifolium*, *Chenopodium urticum*, *Achillea Millefolium*.

was manifested to men, warning was also given, and that to the full, of the enduring of His indignation against sin.

It seems one of the most cunning and frequent of self-deceptions to turn the heart away from this warning and refuse to acknowledge anything in the fair scenes of the natural creation but beneficence. Men in general lean towards the light, so far as they contemplate such things at all, most of them passing "by on the other side," either in mere plodding pursuit of their own work, irrespective of what good or evil is around them, or else in selfish gloom, or selfish delight, resulting from their own circumstances at the moment. Of those who give themselves to any true contemplation, the plurality, being humble, gentle, and kindly hearted, look only in nature for what is lovely and kind; partly, also, God gives the disposition to every healthy human mind in some degree to pass over or even harden itself against evil things, else the suffering would be too great to be borne; and humble people, with a quiet trust that everything is for the best, do not fairly represent the facts to themselves, thinking them none of their business. So, what between hard-hearted people, thoughtless people, busy people, humble people, and cheerfully minded people, — giddiness of youth, and pre-occupations of age, — philosophies of faith, and cruelties of folly, — priest and Levite, masquer and merchantman, all agreeing to keep their own side of the way, — the evil that God sends to warn us gets to be forgotten, and the evil that He sends to be mended by us gets left unmended. And then, because people shut their eyes to the dark indisputableness of the facts in front of them, their Faith, such as it is, is shaken or uprooted by every darkness in what is revealed to them. In the present day it is not easy to find a well-meaning man among our more earnest thinkers, who will not take upon himself to dispute the whole system of redemption, because he cannot unravel the mystery of the punishment of sin. But can he unravel the mystery of the punishment of NO sin? Can he entirely account for all that happens to a cab-horse? Has he ever looked fairly at the fate of one of those beasts as it is dying, — measured the work it has done, and the reward it has got, — put his hand

upon the bloody wounds through which its bones are piercing, and so looked up to Heaven with an entire understanding of Heaven's ways about the horse? Yet the horse is a fact—no dream—no revelation among the myrtle trees by night; and the dust it dies upon, and the dogs that eat it, are facts;—and yonder happy person, whose the horse was till its knees were broken over the hurdles, who had an immortal soul to begin with, and wealth and peace to help forward his immortality; who has also devoted the powers of his soul, and body, and wealth, and peace, to the spoiling of houses, the corruption of the innocent, and the oppression of the poor; and has, at this actual moment of his prosperous life, as many curses waiting round about him in calm shadow, with their death's-eyes fixed upon him, biding their time, as ever the poor cab-horse had launched at him in meaningless blasphemies, when his failing feet stumbled at the stones,—this happy person shall have no stripes,—shall have only the horse's fate of annihilation; or, if other things are indeed reserved for him, Heaven's kindness or omnipotence is to be doubted therefore.

§ 33. We cannot reason of these things. But this I know—and this may by all men be known—that no good or lovely thing exists in this world without its correspondent darkness; and that the universe presents itself continually to mankind under the stern aspect of warning, or of choice, the good and the evil set on the right hand and the left.

And in this mountain gloom, which weighs so strongly upon the human heart that in all time hitherto, as we have seen, the hill defiles have been either avoided in terror or inhabited in penance, there is but the fulfilment of the universal law, that where the beauty and wisdom of the Divine working are most manifested, there also are manifested most clearly the terror of God's wrath, and inevitableness of His power.

Nor is this gloom less wonderful so far as it bears witness to the error of human choice, even when the nature of good and evil is most definitely set before it. The trees of Paradise were fair; but our first parents hid themselves from God “in medio ligni Paradisi,”—in the midst of the trees of the garden.

The hills were ordained for the help of man ; but, instead of raising his eyes to the hills, from whence cometh his help, he does his idol sacrifice "upon every high hill and under every green tree." The mountain of the Lord's house is established above the hills ; but Nadab and Abihu shall see under His feet the body of heaven in his clearness, yet go down to kindle the censer against their own souls. And so to the end of time it will be ; to the end, that cry will still be heard along the Alpine winds, "Hear, oh ye mountains, the Lord's controversy !" Still, their gulfs of thawless ice, and unretarded roar of tormented waves, and deathful falls of fruitless waste, and unredeemed decay, must be the image of the souls of those who have chosen the darkness, and whose cry shall be to the mountains to fall on them, and to the hills to cover them ; and still, to the end of time, the clear waters of the unfailing springs, and the white pasture-lilies in their clothed multitude, and the abiding of the burning peaks in their nearness to the opened heaven, shall be the types, and the blessings, of those who have chosen light, and of whom it is written, "The mountains shall bring peace to the people, and the little hills, righteousness."



## CHAPTER XX.

### THE MOUNTAIN GLORY.

§ 1. I HAVE dwelt, in the foregoing chapter, on the sadness of the hills with the greater insistence that I feared my own excessive love for them might lead me into too favourable interpretation of their influences over the human heart; or, at least, that the reader might accuse me of fond prejudice, in the conclusions to which, finally, I desire to lead him concerning them. For, to myself, mountains are the beginning and the end of all natural scenery; in them, and in the forms of inferior landscape that lead to them, my affections are wholly bound up; and though I can look with happy admiration at the lowland flowers, and woods, and open skies, the happiness is tranquil and cold, like that of examining detached flowers in a conservatory, or reading a pleasant book; and if the scenery be resolutely level, insisting upon the declaration of its own flatness in all the detail of it, as in Holland, or Lincolnshire, or Central Lombardy, it appears to me like a prison, and I cannot long endure it. But the slightest rise and fall in the road,—a mossy bank at the side of a crag of chalk, with brambles at its brow, overhanging it,—a ripple over three or four stones in the stream by the bridge,—above all, a wild bit of ferny ground under a fir or two, looking as if, possibly, one might see a hill if one got to the other side of the trees, will instantly give me intense delight, because the shadow, or the hope, of the hills is in them.

§ 2. And thus, although there are few districts of Northern Europe, however apparently dull or tame, in which I cannot find pleasure,

though the whole of Northern France (except Champagne), dull as it seems to most travellers, is to me a perpetual Paradise ; and, putting Lincolnshire, Leicestershire, and one or two such other perfectly flat districts aside, there is not an English county which I should not find entertainment in exploring the cross-roads of, foot by foot ; yet all my best enjoyment would be owing to the imagination of the hills, colouring, with their far-away memories, every lowland stone and herb. The pleasant French coteau, green in the sunshine, delights me, either by what real mountain character it has in itself (for in extent and succession of promontory the flanks of the French valleys have quite the sublimity of true mountain distances), or by its broken ground and rugged steps among the vines, and rise of the leafage above, against the blue sky, as it might rise at Vevay or Como. There is not a wave of the Seine but is associated in my mind with the first rise of the sandstones and forest pines of Fontainebleau ; and with the hope of the Alps, as one leaves Paris with the horses' heads to the south-west, the morning sun flashing on the bright waves at Charenton. If there be *no* hope or association of this kind, and if I cannot deceive myself into fancying that perhaps at the next rise of the road there may be seen the film of a blue hill in the gleam of sky at the horizon, the landscape, however beautiful, produces in me even a kind of sickness and pain ; and the whole view from Richmond Hill or Windsor Terrace, — nay, the gardens of Alcinous, with their perpetual summer, — or of the Hesperides (if they were flat, and not close to Atlas), golden apples and all, — I would give away in an instant, for one mossy granite stone a foot broad, and two leaves of lady-fern.<sup>1</sup>

<sup>1</sup> In tracing the *whole* of the deep enjoyment to mountain association, I of course except whatever feelings are connected with the observance of rural life, or with that of architecture. None of these feelings arise out of the landscape, properly so called : the pleasure with which we see a peasant's garden fairly kept, or a ploughman doing his work well, or a group of children playing at a cottage door, being wholly separate from that which we find in the fields or commons around them ; and the beauty of architecture, or the associations connected with it, in like manner often ennobling the most tame scenery ; — yet not so but that we may always distinguish between the abstract character of the unassisted landscape, and the charm which it derives from the architecture. Much of the majesty of French landscape consists in its grand and grey village churches and turreted farmhouses, not to speak of its cathedrals, castles, and beautifully placed cities.

§ 3. I know that this is in great part idiosyncrasy; and that I must not trust to my own feelings, in this respect, as representative of the modern landscape instinct; yet I know it is not idiosyncrasy, in so far as there may be proved to be indeed an increase of the absolute beauty of all scenery in exact proportion to its mountainous character, providing that character be *healthily* mountainous. I do not mean to take the Col de Bon Homme as representative of hills, any more than I would take Romney Marsh as representative of plains; but putting Leicestershire or Staffordshire fairly beside Westmoreland, and Lombardy or Champagne fairly beside the Pays de Vand or the Canton Berne, I find the increase in the calculable sum of elements of beauty to be steadily in proportion to the increase of mountainous character; and that the best image which the world can give of Paradise is in the slope of the meadows, orchards, and corn-fields on the sides of a great Alp, with its purple rocks and eternal snows above; this excellence not being in any wise a matter referable to feeling, or individual preferences, but demonstrable by calm enumeration of the number of lovely colours on the rocks, the varied grouping of the trees, and quantity of noble incidents in stream, crag, or cloud, presented to the eye at any given moment.

§ 4. For consider, first, the difference produced in the whole tone of landscape colour by the introductions of purple, violet, and deep ultramarine blue, which we owe to mountains. In an ordinary lowland landscape we have the blue of the sky; the green of grass, which I will suppose (and this is an unnecessary concession to the lowlands) entirely fresh and bright; the green of trees; and certain elements of purple, far more rich and beautiful than we generally should think, in their bark and shadows (bare hedges and thickets, or tops of trees, in subdued afternoon sunshine, are nearly perfect purple, and of an exquisite tone), as well as in ploughed fields, and dark ground in general. But among mountains, in *addition* to all this, large unbroken spaces of pure violet and purple are introduced in their distances; and even near, by films of cloud passing over the darkness of ravines or forests, blues are produced of the most subtle tenderness; these azures and

purples<sup>1</sup> passing into rose-colour of otherwise wholly unattainable delicacy among the upper summits, the blue of the sky being at the same time purer and deeper than in the plains. Nay, in some sense, a person who has never seen the rose-colour of the rays of dawn crossing a blue mountain twelve or fifteen miles away, can hardly be said to know what *tenderness* in colour means at all; *bright* tenderness he may, indeed, see in the sky or in a flower, but this grave tenderness of the far-away hill-purples he cannot conceive.

- § 5. Together with this great source of preeminence in *mass* of colour, we have to estimate the influence of the finished inlaying and enamel-work of the colour-jewellery on every stone; and that of the continual variety in species of flower; most of the mountain flowers being, besides, separately lovelier than the lowland ones. The wood hyacinth and wild rose are, indeed, the only *supreme* flowers that the lowlands can generally show; and the wild rose is also a mountaineer, and more fragrant in the hills, while the wood hyacinth, or grape hyacinth, at its best, cannot match even the dark bell-gentian, leaving the light-blue star-gentian in its uncontested queenliness, and the Alpine rose and Highland heather wholly without similitude. The violet, lily of the valley, crocus, and wood anemone are, I suppose, claimable partly by the plains as well as the hills; but the large orange lily and narcissus I have never seen but on hill pastures, and the exquisite oxalis is preeminently a mountaineer.<sup>2</sup>

- § 6. To this supremacy in mosses and flowers we have next to add an inestimable gain in the continual presence and power of water. Neither in its clearness, its colour, its fantasy of motion, its calmness of space, depth, and reflection, or its wrath, can water be

<sup>1</sup> One of the principal reasons for the false supposition that Switzerland is not picturesque, is the error of most sketchers and painters in representing pine forest in middle distance as dark *green*, or grey green, whereas its true colour is always purple, at distances of even two or three miles. Let any traveller coming down the Montanvert look for an aperture, three or four inches wide, between the near pine branches, through which, standing eight or ten feet from it, he can see the opposite forests on the Breven or Flegère. Those forests are not above two or two and a half miles from him; but he will find the aperture is filled by a tint of nearly pure azure or purple, not by green.

<sup>2</sup> The Savoyard's name for its flower, "*Pain du Bon Dieu*," is very beautiful; from, I believe, the supposed resemblance of its white and scattered blossom to the fallen manna.

conceived by a lowlander, out of sight of sea. A sea wave is far grander than any torrent—but of the sea and its influences we are not now speaking; and the sea itself, though it *can* be clear, is never calm, among our shores, in the sense that a mountain lake can be calm. The sea seems only to pause; the mountain lake to sleep, and to dream. Out of sight of the ocean a lowlander cannot be considered ever to have seen water at all. The mantling of the pools in the rock shadows, with the golden flakes of light sinking down through them like falling leaves, the ringing of the thin currents among the shallows, the flash and the cloud of the cascade, the earthquake and foam-fire of the cataract, the long lines of alternate mirror and mist that lull the imagery of the hills reversed in the blue of morning,—all these things belong to those hills as their undivided inheritance.

- § 7. To this supremacy in wave and stream is joined a no less manifest preeminence in the character of trees. It is possible among plains, in the species of trees which properly belong to them, the poplars of Amiens, for instance, to obtain a serene simplicity of grace, which, as I said, is a better help to the study of gracefulness, as such, than any of the wilder groupings of the hills; so also, there are certain conditions of symmetrical luxuriance developed in the park and avenue, rarely rivalled in their way among mountains; and yet the mountain superiority in foliage is, on the whole, nearly as complete as it is in water: for exactly as there are some expressions in the broad reaches of a navigable lowland river, such as the Loire or Thames, not, in their way, to be matched among the rock rivers, and yet for all that a lowlander cannot be said to have truly seen the element of water at all; so even in his richest parks and avenues he cannot be said to have truly seen trees. For the resources of trees are not developed until they have difficulty to contend with; neither their tenderness of brotherly love and harmony, till they are forced to choose their ways of various life where there is contracted room for them, talking to each other with their restrained branches. The various action of trees rooting themselves in inhospitable rocks, stooping to look into ravines, hiding from the search of glacier winds, reaching forth to the rays of

rare sunshine, crowding down together to drink at sweetest streams, climbing hand in hand among the difficult slopes, opening in sudden dances round the mossy knolls, gathering into companies at rest among the fragrant fields, gliding in grave procession over the heavenward ridges,—nothing of this can be conceived among the unvexed and unvaried felicities of the lowland forest: while to all these direct sources of greater beauty are added, first the power of redundancy,—the mere quantity of foliage visible in the folds and on the promontories of a single Alp being greater than that of an entire lowland landscape (unless a view from some cathedral tower); and to this charm of redundancy, that of clearer *visibility*,—tree after tree being constantly shown in successive height, one behind another, instead of the mere tops and flanks of masses, as in the plains; and the forms of multitudes of them continually defined against the clear sky, near and above, or against white clouds entangled among their branches, instead of being confused in dimness of distance.

§ 8. Finally, to this supremacy in foliage we have to add the still less questionable supremacy in clouds. There is no effect of sky possible in the lowlands which may not in equal perfection be seen among the hills; but there are effects by tens of thousands, for ever invisible and inconceivable to the inhabitant of the plains, manifested among the hills in the course of one day. The mere power of familiarity with the clouds, of walking with them and above them, alters and renders clear our whole conception of the baseless architecture of the sky; and for the beauty of it, there is more in a single wreath of early cloud, pacing its way up an avenue of pines, or pausing among the points of their fringes, than in all the white heaps that fill the arched sky of the plains from one horizon to the other. And of the nobler cloud manifestations,—the breaking of their troublous seas against the crags, their black spray sparkling with lightning; or the going forth of the morning along their pavements of moving marble, level-laid between dome and dome of snow;—of these things there can be as little imagination or understanding in an inhabitant of the plains as of the scenery of another planet than his own.

§ 9. And, observe, all these superiorities are matters plainly measurable and calculable, not in any wise to be referred to estimate of *sensation*. Of the grandeur or expression of the hills I have not spoken; how far they are great, or strong, or terrible, I do not for the moment consider, because vastness, and strength, and terror, are not to all minds subjects of desired contemplation. It may make no difference to some men whether a natural object be large or small, whether it be strong or feeble. But loveliness of colour, perfectness of form, endlessness of change, wonderfulness of structure, are precious to all undiseased human minds; and the superiority of the mountains in all these things to the lowland is, I repeat, as measurable as the richness of a painted window matched with a white one, or the wealth of a museum compared with that of a simply furnished chamber. They seem to have been built for the human race, as at once their schools and cathedrals; full of treasures of illuminated manuscript for the scholar, kindly in simple lessons to the worker, quiet in pale cloisters for the thinker, glorious in holiness for the worshipper. And of these great cathedrals of the earth, with their gates of rock, pavements of cloud, choirs of stream and stone, altars of snow, and vaults of purple traversed by the continual stars,—of these, as we have seen, it was written, nor long ago, by one of the best of the poor human race for whom they were built, wondering in himself for whom their Creator *could* have made them, and thinking to have entirely discerned the Divine intent in them — “They are inhabited by the Beasts.”

§ 10. Was it then indeed thus with us, and so lately? Had mankind offered no worship in their mountain churches? Was all that granite sculpture and floral painting done by the angels in vain?

Not so. It will need no prolonged thought to convince us that in the hills the purposes of their Maker have indeed been accomplished in such measure as, through the sin or folly of men, He ever permits them to be accomplished. It may not seem, from the general language held concerning them, or from any directly traceable results, that mountains have had serious influence on human intellect; but it will not, I think, be difficult to show that

their occult influence has been both constant and essential to the progress of the race.

- § 11. Consider, first, whether we can justly refuse to attribute to their mountain scenery some share in giving the Greeks and Italians their intellectual lead among the nations of Europe.

There is not a single spot of land in either of these countries from which mountains are not discernible; almost always they form the principal feature of the scenery. The mountain outlines seen from Sparta, Corinth, Athens, Rome, Florence, Pisa, Verona, are of consummate beauty; and whatever dislike or contempt may be traceable in the mind of the Greeks for mountain ruggedness, their placing the shrine of Apollo under the cliffs of Delphi, and his throne upon Parnassus, was a testimony to all succeeding time that they themselves attributed the best part of their intellectual inspiration to the power of the hills. Nor would it be difficult to show that every great writer of either of those nations, however little definite regard he might manifest for the landscape of his country, had been mentally formed and disciplined by it, so that even such enjoyment as Homer's of the ploughed ground and poplar groves owes its intensity and delicacy to the excitement of the imagination produced, without his own consciousness, by other and grander features of the scenery to which he had been accustomed from a child; and differs in every respect from the tranquil, vegetative, and prosaic affection with which the same ploughed land and poplars would be regarded by a native of the Netherlands.

The vague expression which I have just used—"intellectual lead," may be expanded into four great heads; lead in Religion, Art and Literature, War, and Social Economy.

- § 12. It will be right to examine our subject eventually under these four heads; but I shall limit myself, for the present, to some consideration of the first two, for a reason presently to be stated.

1st. Influence  
of mountains on  
religious tem-  
perament.

I. We have before had occasion to note the peculiar awe with which mountains were regarded in the middle ages, as bearing continual witness against the frivolity or luxury of the world. Though the sense of this influence of theirs is perhaps



more clearly expressed by the mediæval Christians than by any other sect of religionists, the influence itself has been constant in all time. Mountains have always possessed the power, first, of exciting religious enthusiasm; secondly, of purifying religious faith. These two operations are partly contrary to one another: for the faith of enthusiasm is apt to be *impure*, and the mountains, by exciting morbid conditions of the imagination, have caused in great part the legendary and romantic forms of belief; on the other hand, by fostering simplicity of life and dignity of morals, they have purified by action what they falsified by imagination. But, even in their first and most dangerous influence, it is not the mountains that are to blame, but the human heart. While we mourn over the fictitious shape given to the religious visions of the anchorite, we may envy the sincerity and the depth of the emotion from which they spring: in the deep feeling, we have to acknowledge the solemn influences of the hills; but for the erring modes or forms of thought, it is human wilfulness, sin, and false teaching, that are answerable. We are not to deny the nobleness of the imagination because its direction is illegitimate, nor the pathos of the legend because its circumstances are groundless; the ardour and abstraction of the spiritual life are to be honoured in themselves, though the one may be misguided and the other deceived; and the deserts of Osma, Assisi, and Monte Viso are still to be thanked for the zeal they gave, or guarded, whether we find it in St. Francis and St. Dominic, or in those whom God's hand hid from them in the clefts of the rocks.

- § 12. And, in fact, much of the apparently harmful influence of hills on the religion of the world is nothing else than their general gift of exciting the poetical and inventive faculties, in peculiarly solemn tones of mind. Their terror leads into devotional casts of thought; their beauty and wildness prompt the invention at the same time; and where the mind is not gifted with stern reasoning powers, or protected by purity of teaching, it is sure to mingle the invention with its creed, and the vision with its prayer. Strictly speaking, we ought to consider the superstitions of the hills, universally, as a form of poetry; regretting only that men

have not yet learned how to distinguish poetry from well-founded faith. And if we do this, and enable ourselves thus to review, without carping or sneering, the shapes of solemn imagination which have arisen among the inhabitants of Europe, we shall find, on the one hand, the mountains of Greece and Italy forming all the loveliest dreams, first of the Pagan, then of the Christian mythology; on the other, those of Scandinavia to be the first sources of whatever mental (as well as military) power was brought by the Normans into Southern Europe. Normandy itself is to all intents and purposes a hill country; composed, over large extents, of granite and basalt, often rugged and covered with heather on the summits, and traversed by beautiful and singular dells, at once soft and secluded, fruitful and wild. We have thus one branch of the Northern religious imagination rising among the Scandinavian fiords, tempered in France by various encounters with elements of Arabian, Italian, Provençal, or other Southern poetry, and then reacting upon Southern England; while other forms of the same rude religious imagination, resting like clouds upon the mountains of Scotland and Wales, met and mingled with the Norman Christianity, retaining even to the latest times some dark colour of superstition, but giving all its poetical and military pathos to Scottish poetry, and a peculiar sternness and wildness of tone to the Reformed faith, in its manifestations among the Scottish hills.

- § 14. It is on less disputable ground that I may claim the reader's gratitude to the mountains, as having been the centres not only of imaginative energy, but of purity both in doctrine and practice. The enthusiasm of the persecuted Covenanter, and his variously modified claims to miraculous protection or prophetic inspiration, hold exactly the same relation to the smooth proprieties of lowland Protestantism, that the demon-combats, fastings, visions, and miracles of the mountain monk or anchorite hold to the wealth and worldliness of the Vatican. It might indeed happen, whether at Canterbury, Rheims, or Rome, that a good bishop should occasionally grasp the crozier; and a vast amount of prudent, educated, and admirable piety is to be found among the ranks of the lowland clergy. But still the large

aspect of the matter is always, among Protestants, that formalism, respectability, orthodoxy, caution, and propriety, live by the slow stream that encircles the lowland abbey or cathedral; and that enthusiasm, poverty, vital faith, and audacity of conduct, characterize the pastor dwelling by the torrent side. In like manner, taking the large aspects of Romanism, we see that its worst corruptions, its cunning, its worldliness, and its permission of crime, are traceable for the most part to lowland prelacy; but its self-denials, its obediences, humilities, sincere claims to miraculous power, and faithful discharges of pastoral duty, are traceable chiefly to its anchorites and mountain clergy.

§ 15. It is true that the "Lady Poverty" of St. Francis may share the influence of the hills in the formation of character; and that, since the clergy who have little interest at court or conclave are those who in general will be driven to undertake the hill services, we must often attribute to enforced simplicity of life, or natural bitterness of feeling, some of the tones of thought which we might otherwise have ascribed to the influence of mountain scenery. Such causes, however, affect the lowland as much as the highland religious character in all districts far from cities; but they do not produce the same effects. The curate or hermit of the field and fen, however simple his life, or painful his lodging, does not often attain the spirit of the hill pastor or recluse: we may find in him a decent virtue or a contented ignorance, rarely the prophetic vision or the martyr's passion. Among the fair arable lands of England and Belgium, extends an orthodox Protestantism or Catholicism; prosperous, creditable, and drowsy; but it is among the purple moors of the highland border, the ravines of Mont Genève, and the crags of the Tyrol, that we shall find the simplest Evangelical faith, and the purest Romanist practice.

§ 16. Of course the inquiry into this branch of the hill influence is partly complicated with that into its operation on domestic habits and personal character, of which hereafter: but there is one curious witness borne to the general truth of the foregone conclusions, by an apparently slight, yet very significant circumstance in art. We have seen, in the preceding volume, how

difficult it was sometimes to distinguish between honest painters, who truly chose to paint sacred subjects because they loved them, and the affected painters, who took sacred subjects for their own pride's sake, or for merely artistical delight. Amongst other means of arriving at a conclusion in this matter, there is one helpful test which may be applied to their various works, almost as easily and certainly as a foot-rule could be used to measure their size; and which remains an available test, down to the date of the rise of the Claudesque landscape schools. Nearly all the genuine religious painters use *steep mountain distances*. All the merely artistical ones, or those of intermediate temper, in proportion as they lose the religious element, use flat or simply architectural distances. Of course the law is liable to many exceptions, chiefly dependent on the place of birth and early associations of painters; but its force is, I think, strongly shown in this;—that, though the Flemish painters never showed any disposition to paint, *for its own sake*, other scenery than of their own land (compare Vol. III. Chap. XIII. § 20.), the sincerely religious ones continually used Alpine distances, bright with snow. In like manner Giotto, Perugino, Angelico, the young Raphael, and John Bellini, always, if, with any fitness to their subject, they can introduce them, use craggy or blue mountain distances, and this with definite expression of love towards them; Leonardo, conventionally, as feeling they were necessary for his sacred subjects, while yet his science and idealism had destroyed his mountain sincerity; Michael Angelo, wholly an artist, and Raphael in later years, show no love of mountains whatever, while the relative depths of feeling in Tintoret, Titian, and Veronese, are precisely measurable by their affection to mountains. Tintoret, though born in Venice, yet, because capable of the greatest reaches of feeling, is the first of the old painters who ever drew mountain detail rightly<sup>1</sup>: Titian, though born in Cadore, and recurring to it constantly, yet being more worldly-minded, uses his hills somewhat more conventionally, though still in his most deeply felt pictures, such as the St. Jerome in the Brera, giving

<sup>1</sup> See reference to his painting of stones in the last note to § 28. of the chapter on Imagination Penetrative, Vol. II.

to the rocks and forests a consummate nobleness; and Veronese, in his gay grasp of the outside aspects of the world, contentedly includes his philosophy within porticos and pillars, or at the best overshadows it with a few sprays of laurel.

§ 17. The test fails, however, utterly when applied to the later or transitional landscape schools, mountains being there introduced in mere wanton savageness by Salvator, or vague conventionalism by Claude, Berghem, and hundreds more. This need not, however, in the least invalidate our general conclusions: we surely know already that it is possible to misuse the best gifts, and pervert the purest feelings; nor need we doubt the real purpose, or, on honest hearts, the real effect, of mountains, because various institutions have been founded among them by the banditti of Calabria, as well as by St. Bruno.

§ 18. I cannot leave this part of my subject without recording a slight incident, which happened to myself, singularly illustrative of the religious character of the Alpine peasant when under favourable circumstances of teaching. I was coming down one evening from the Rochers de Naye, above Montreux, having been at work among the limestone rocks, where I could get no water, and both weary and thirsty. Coming to a spring at a turn of the path, conducted, as usual, by the herdsmen into a hollowed pine-trunk, I stooped to it and drank deeply: as I raised my head, drawing breath heavily, some one behind me said, "Celui qui boira de cette eau-ci, aura encore soif." I turned, not understanding for the moment what was meant; and saw one of the hill-peasants, probably returning to his chalet from the market-place at Vevay or Villeneuve. As I looked at him with an uncomprehending expression, he went on with the verse:—"Mais celui qui boira de l'eau que je lui donnerai, n'aura jamais soif."

I doubt if this would have been thought of, or said, by even the most intelligent lowland peasant. The thought might have occurred to him, but the frankness of address, and expectation of being at once understood without a word of preparative explanation, as if the language of the Bible were familiar to all men, mark, I think, the mountaineer.

- § 19. We were next to examine the influence of hills on the artistic power of the human race. Which power, so far as it depends on the imagination, must evidently be fostered by the same influences which give vitality to religious vision. But, so far as artistic productiveness and skill are concerned, it is evident that the mountaineer is at a radical and insurmountable disadvantage. The strength of his character depends upon the absence of luxury; but it is eminently by luxury that art is supported. We are not, therefore, to deny the mountain influence, because we do not find finished frescoes on the timbers of *châlets*, or delicate bas-reliefs on the bastion which protects the mountain church from the avalanche; but to consider how far the tone of mind shown by the artists labouring in the lowland is dependent for its intensity on the distant influences of the hills, whether during the childhood of those born among them, or under the casual contemplation of men advanced in life.
- 2nd. Influence of mountains on artistic power.
- § 20. Glancing broadly over the strength of the mediæval—that is to say, of the peculiar and energetic—art of Europe, so as to discern, through the clear flowing of its waves over France, Italy, and England, the places in the pool where the fountain-heads are, and where the sand dances, I should first point to Normandy and Tuscany. From the cathedral of Pisa, and the sculpture of the Pisans, the course is straight to Giotto, Angelico, and Raphael,—to Orcagna and Michael Angelo;—the Venetian school, in many respects mightier, being, nevertheless, subsequent and derivative. From the cathedrals of Caen and Coutances the course is straight to the Gothic of Chartres and Notre-Dame of Paris, and thence forward to all French and English noble art, whether ecclesiastical or domestic. Now the mountain scenery about Pisa is precisely the most beautiful that surrounds any great Italian city, owing to the wonderful outlines of the peaks of Carrara. Milan and Verona have indeed finer ranges in sight, but rising farther in the distance, and therefore not so directly affecting the popular mind. The Norman imagination, as already noticed, is Scandinavian in origin, and fostered by the lovely granite scenery of Normandy itself. But there is, nevertheless, this great difference between French art and Italian, that the French paused

strangely at a certain point, as the Norman hills are truncated at the summits, while the Italian rose steadily to a vertex, as the Carrara hills to their crests. Let us observe this a little more in detail.

The sculpture of the Pisans was taken up and carried into various perfection by the Lucchese, Pistoians, Sienese, and Florentines. All these are inhabitants of truly mountain cities, Florence being as completely among the hills as Innspruck is, only the hills have softer outlines. Those around Pistoja and Lucca are in a high degree majestic. Giotto was born and bred among these hills. Angelico lived upon their slope. The mountain towns of Perugia and Urbino furnish the only important branches of correlative art; for Leonardo, however individually great, originated no new school; he only carried the *executive* delicacy of landscape detail so far beyond other painters as to necessitate my naming the fifteenth-century manner of landscape after him, though he did not invent it; and although the school of Milan is distinguished by several peculiarities, and definitely enough separable from the other schools of Italy, all its peculiarities are mannerisms, not inventions.

Correggio, indeed, created a new school, though he himself is almost its only master. I have given in the preceding volume the mountain outline seen from Parma. But the only entirely great group of painters after the Tuscans are the Venetians, and they are headed by Titian and Tintoret, on whom we have noticed the influence of hills already; and although we cannot trace it in Paul Veronese, I will not quit the mountain claim upon him; for I believe all that gay and gladdening strength of his was fed by the breezes of the hills of Garda, and brightened by the swift glancing of the waves of the Adige.<sup>1</sup>

§ 22. Observe, however, before going farther, of all the painters we have named, the one who obtains most executive perfection is Leonardo, who on the whole lived at the greatest distance from

<sup>1</sup> In saying this I do not, of course, forget the influence of the sea on the Pisans and Venetians; but that is a separate subject, and must be examined in the next volume.

the hills. The two who have most feeling are Giotto and Angelico, both hill-bred. And generally, I believe, we shall find that the hill country gives its inventive depths of feeling to art, as in the work of Orcagna, Perugino, and Angelico, and the plain country executive neatness. The executive precision is joined with feeling in Leonardo, who saw the Alps in the distance; it is totally unaccompanied by feeling in the pure Dutch schools, or schools of the dead flats.

- § 23. I do not know if any writer on art, or on the development of national mind, has given his attention to what seems to me one of the most singular phenomena in the history of Europe,—the pause of the English and French in pictorial art after the fourteenth century. From the days of Henry III. to those of Elizabeth, and of Louis IX. to those of Louis XIV., the general intellect of the two nations was steadily on the increase. But their art intellect was as steadily retrograde. The only art work that France and England have done nobly is that which is centralized by the Cathedral of Lincoln, and the Sainte Chapelle. We had at that time (*we*—French and English—but the French first) the incontestable lead among European nations; no thirteenth-century work in Italy is comparable for majesty of conception, or wealth of imaginative detail, to the cathedrals of Chartres, Rheims, Rouen, Amiens, Lincoln, Peterborough, Wells, or Lichfield. But every hour of the fourteenth century saw French and English art in precipitate decline, Italian in steady ascent; and by the time that painting and sculpture had developed themselves in an approximated perfection, in the work of Ghirlandajo and Mino of Fésolo, we had in France and England no workman, in any art, deserving a workman's name; nothing but skilful masons, with more or less love of the picturesque, and redundancy of undisciplined imagination, flaming itself away in wild and rich traceries, and crowded bosses of grotesque figure sculpture, and expiring at last in barbarous imitation of the perfected skill and erring choice of Renaissance Italy. Painting could not decline, for it had not reached any eminence; the exquisite arts of illumination and glass design had led to no effective results in other materials; they themselves,



incapable of any higher perfection than they had reached in the thirteenth century, perished in the vain endeavour to emulate pictorial excellence, bad *drawing* being substituted, in books, for lovely *writing*, and opaque precision, in glass, for transparent power; nor in any single department of exertion did artists arise of such calibre or class as any of the great Italians; and yet all the while, in literature, *we* were gradually and steadily advancing in power up to the time of Shakespere; the Italians, on the contrary, not advancing after the time of Dante.

- § 24. Of course I have no space here to pursue a question such as this; but I may state my belief that *one* of the conditions involved in it was the mountain influence of Italian scenery, inducing a disposition to such indolent or enthusiastic reverie, as could only express itself in the visions of art; while the comparatively flat scenery and severer climate of England and France, fostering less enthusiasm, and urging to more exertion, brought about a practical and rational temperament, progressive in policy, science, and literature, but wholly retrograde in art; that is to say (for great art may be properly so defined), in the Art of *Dreaming*.

- § 25. III. In admitting this, we seem to involve the supposition that mountain influence is either unfavourable or inessential to literary power; but for this also the mountain influence is still necessary, only in a subordinate degree. It is true, indeed, that the Avon is no mountain torrent, and that the hills round the vale of Stratford are not sublime; true, moreover, that the cantons Berne or Uri have never yet, so far as I know, produced a great poet; but neither, on the other hand, has Antwerp or Amsterdam. And, I believe, the natural scenery which will be found, on the whole, productive of most literary intellect is that mingled of hill and plain, as all available light is of flame and darkness; the flame being the active element, and the darkness the tempering one.

3rd. Influence  
of mountains  
on literary  
power.

- § 26. In noting such evidence as bears upon this subject, the reader must always remember that the mountains are at an unfair disadvantage, in being much *out of the way* of the masses of men employed in intellectual pursuits. The position of a city is dictated

by military necessity or commercial convenience: it rises, flourishes, and absorbs into its activity whatever leading intellect is in the surrounding population. The persons who are able and desirous to give their children education naturally resort to it; the best schools, the best society, and the strongest motives assist and excite those born within its walls; and youth after youth rises to distinction out of its streets, while among the blue mountains, twenty miles away, the goatherds live and die in unregarded lowliness. And yet this is no proof that the mountains have little effect upon the mind, or that the streets have a helpful one. The men who are formed by the schools, and polished by the society of the capital, may yet in many ways have their powers shortened by the absence of natural scenery; and the mountaineer, neglected, ignorant, and unambitious, may have been taught things by the clouds and streams which he could not have learned in a college, or a coterie.

- § 27. And in reasoning about the effect of mountains we are therefore under a difficulty like that which would occur to us if we had to determine the good or bad effect of light on the human constitution, in some place where all corporal exercise was necessarily in partial darkness, and only idle people lived in the light. The exercise might give an advantage to the occupants of the gloom, but we should neither be justified in therefore denying the preciousness of light in general, nor the necessity to the workers of the few rays they possessed; and thus I suppose the hills around Stratford, and such glimpses as Shakespere had of sandstone and pines in Warwickshire, or of chalk cliffs in Kent, to have been essential to the development of his genius. This supposition can only be proved false by the rising of a Shakespere at Rotterdam or Bergen-op-Zoom, which I think not probable; whereas, on the other hand, it is confirmed by myriads of collateral evidences. The matter could only be *tested* by placing for half a century the British universities at Keswick and Beddgelert, and making Grenoble the capital of France; but if, throughout the history of Britain and France, we contrast the general invention and pathetic power, in ballads or legends, of the inhabitants of the Scottish Border with those manifested in

Suffolk or Essex; and similarly the inventive power of Normandy, Provence, and the Bearnois with that of Champagne or Picardy, we shall obtain some convincing evidence respecting the operation of hills on the masses of mankind, and be disposed to admit, with less hesitation, that the apparent inconsistencies in the effect of scenery on greater minds proceed in each case from specialities of education, accident, and original temper, which it would be impossible to follow out in detail. Sometimes only, when the original resemblance in character of intellect is very marked in two individuals, and they are submitted to definitely contrary circumstances of education, an approximation to evidence may be obtained. Thus Bacon and Pascal appear to be men naturally very similar in their temper and powers of mind. One, born in York House, Strand, of courtly parents, educated in court atmosphere, and replying, almost as soon as he could speak, to the queen asking how old he was — “Two years younger than Your Majesty’s happy reign!” — has the world’s meanness and cunning engrafted into his intellect, and remains smooth, serene, unenthusiastic, and in some degree base, even with all his sincere devotion and universal wisdom; bearing, to the end of life, the likeness of a marble palace in the street of a great city, fairly furnished within, and bright in wall and battlement, yet noisome in places about the foundations. The other, born at Clermont in Auvergne, under the shadow of the Puy de Dôme, though taken to Paris at eight years old, retains for ever the impress of his birthplace; pursuing natural philosophy with the same zeal as Bacon, he returns to his own mountains to put himself under their tutelage, and by their help first discovers the great relations of the earth and the air: struck at last with mortal disease; gloomy, enthusiastic, and superstitious, with a conscience burning like lava, and inflexible like iron, the clouds gather about the majesty of him, fold after fold; and, with his spirit buried in ashes, and rent by earthquake, yet fruitful of true thought and faithful affection, he stands like that mound of desolate scoria that crowns the hill ranges of his native land, with its sable summit far in heaven, and its foundations green with the ordered garden and the trellised vine.

§ 28. When, however, our inquiry thus branches into the successive analysis of individual characters, it is time for us to leave it; noting only one or two points respecting Shakespere, whom I doubt not, the reader was surprised to find left out of all our comparisons in the preceding volume. He seems to have been sent essentially to take universal and equal grasp of the *human* nature; and to have been removed, therefore, from all influences which could in the least warp or bias his thoughts. It was necessary that he should lean *no* way; that he should contemplate, with absolute equality of judgment, the life of the court, cloister, and tavern, and be able to sympathize so completely with all creatures as to deprive himself, together with his personal identity, even of his conscience, as he casts himself into their hearts. He must be able to enter into the soul of Falstaff or Shylock with no more sense of contempt or horror than Falstaff or Shylock themselves feel for or in themselves; otherwise his own conscience and indignation would make him unjust to them; he would turn aside from something, miss some good, or overlook some essential palliation. He must be utterly without anger, utterly without purpose; for if a man has any serious purpose in life, that which runs counter to it, or is foreign to it, will be looked at frowningly or carelessly by him. Shakespere was forbidden of Heaven to have any *plans*. To *do* any good or *get* any good, in the common sense of good, was not to be within his permitted range of work. Not, for him, the founding of institutions, the preaching of doctrines, or the repression of abuses. Neither he, nor the sun, did on any morning that they rose together, receive charge from their Maker concerning such things. They were both of them to shine on the evil and good; both to behold unoffendedly all that was upon the earth, to burn unappalled upon the spears of kings, and undisdaining, upon the reeds of the river.

§ 29. Therefore, so far as nature had influence over the early training of this man, it was essential to his perfectness that the nature should be quiet. No mountain passions were to be allowed in him. Inflict upon him but one pang of the monastic conscience; cast upon him but one cloud of the mountain gloom; and his

serenity had been gone for ever—his equity—his infinity. You would have made another Dante of him; and all that he would have ever uttered about poor, soiled, and frail humanity would have been the quarrel between Sinon and Adam of Brescia,—speedily retired from, as not worthy a man's hearing, nay, not to be heard without heavy fault. All your Falstaffs, Slenders, Quicklys, Sir Tobys, Lances, Touchstones, and Quinces would have been lost in that. Shakespere could be allowed no mountains; nay, not even any supreme natural beauty. He had to be left with his kingcups and clover;—pansies—the passing clouds—the Avon's flow—and the undulating hills and woods of Warwick; nay, he was not to love even these in any exceeding measure, lest it might make him in the least overrate their power upon the strong, full-fledged minds of men. He makes the quarrelling fairies concerned about them; poor lost Ophelia find some comfort in them; fearful, fair, wise-hearted Perdita trust the speaking of her good will and good hostessship to them; and one of the brothers of Imogen confide his sorrow to them,—rebuked instantly by his brother for “wench-like words;”<sup>1</sup> but any thought of them in his mighty men I do not find: it is not usually in the nature of such men; and if

<sup>1</sup> “With fairest flowers  
While summer lasts, and I live here, Fidele,  
I'll sweeten thy sad grave. Thou shalt not lack  
The flower that's like thy face—pale primrose, nor  
The azured harebell—like thy veins; no, nor  
The leaf of eglantine, whom not to slander,  
Outsweetened not thy breath. The ruddock would  
With charitable bill bring thee all this;  
Yea, and furred moss besides, when flowers are none,  
To winter-ground thy corse.

*Gwi.* Prithee, have done,  
And do not play in wench-like words with that  
Which is so serious.”

Imogen herself, afterwards, in deeper passion, will give weeds—not flowers,—and something more:

“And when  
With wildwood leaves, and weeds, I have strewed his grave,  
And on it said a century of prayers,  
Such as I can, twice o'er, I'll weep, and sigh,  
And, leaving so his service, follow you.”

he had loved the flowers the *least* better himself, he would assuredly have been offended at this, and given a botanical turn of mind to Cæsar, or Othello.

- § 30. And it is even among the most curious proofs of the necessity to all high imagination that it should paint straight from the life, that he has *not* given such a turn of mind to some of his great men;—Henry the Fifth, for instance. Doubtless some of my readers, having been accustomed to hear it repeated thoughtlessly from mouth to mouth that Shakespere conceived the spirit of all ages, were as much offended as surprised at my saying that he only painted human nature as he saw it in his own time. They will find, if they look into his work closely, as much antiquarianism as they do geography, and no more. The commonly received notions about the things that had been, Shakespere took as he found them, animating them with pure human nature, of any time and all time; but inquiries into the minor detail of temporary feeling, he despised as utterly as he did maps; and wheresoever the temporary feeling was in anywise contrary to that of his own day, he errs frankly, and paints from his own time. For instance in this matter of love of flowers; we have traced already, far enough for our general purposes, the mediæval interest in them, whether to be enjoyed in the fields, or to be used for types of ornamentation in dress. If Shakespere had cared to enter into the spirit even of the early fifteenth century, he would assuredly have marked this affection in some of his knights, and indicated, even then, in heroic tempers, the peculiar respect for loveliness of *dress* which we find constantly in Dante. But he could not do this; he had not seen it in real life. In his time dress had become an affectation and absurdity. Only fools, or wise men in their weak moments, showed much concern about it; and the facts of human nature which appeared to him general in the matter were the soldier's disdain, and the coxcomb's care of it. Hence Shakespere's good soldier is almost always in plain or battered armour; even the speech of Vernon in Henry the Fourth, which, as far as I remember, is the only one that bears fully upon the beauty of armour, leans more upon the spirit and hearts of men—"bated, like eagles having lately bathed;"

and has an under-current of slight contempt running through the following line, "Glittering in golden coats, *like images*;" while the beauty of the young Harry is essentially the beauty of fiery and perfect youth, answering as much to the Greek, or Roman, or Elizabethan knight as to the mediæval one; whereas the definite interest in armour and dress is opposed by Shakespere in the French (meaning to depreciate them), to the English rude soldierliness:

"*Con.* Tut, I have the best armour of the world. Would it were day!  
*Orl.* You have an excellent armour, but let my horse have his due."

And again:

"My lord constable, the armour that I saw in your tent to-night, are those stars, or suns, upon it?"

while Henry, half proud of his poorness of array, speaks of armorial splendour scornfully; the main idea being still of its being a gilded show and vanity—

"Our gayness and our *gilt* are all besmirched."

This is essentially Elizabethan. The quarterings on a knight's shield, or the inlaying of his armour, would never have been thought of by him as mere "gayness or gilt" in earlier days.<sup>1</sup> In like manner, throughout every scale of rank or feeling, from that of the French knights down to Falstaff's "I looked he should have sent me two-and-twenty yards of satin, as I am true knight, and he sends me security!" care for dress is always considered by Shakespere as contemptible; and Mrs. Quickly distinguishes herself from a true fairy by her solicitude to scour the *chairs of order*—and "each fair instalment, coat, and several crest;" and the association in her mind of the flowers in the fairy rings with the

"Sapphire, pearl, and rich embroidery,  
 Buckled below fair knighthood's bending knee;"

<sup>1</sup> If the reader thinks that in Henry the Fifth's time the Elizabethan temper might already have been manifesting itself, let him compare the English herald's speech, act 2. scene 2. of King John; and by way of specimen of Shakespere's historical care, or regard of mediæval character, the large use of *artillery* in the previous scene.

while the true fairies, in field simplicity, are only anxious to "sweep the dust behind the door;" and

"With this field dew consecrate,  
Every several chamber bless  
Through this palace with sweet peace."

Note the expression "Field dew consecrate." Shakespere loved courts and camps; but he felt that sacredness and peace were in the dew of the Fields only.

- § 31. There is another respect in which he was wholly incapable of entering into the spirit of the middle ages. He had no great art of any kind around him in his own country, and was, consequently, just as powerless to conceive the general influence of former art, as a man of the most inferior calibre. Therefore it was, that I did not care to quote his authority respecting the power of imitation, in the second chapter of the preceding volume. If it had been needful to add his testimony to that of Dante (given in § 5.), I might have quoted multitudes of passages wholly concurring with that, of which the "fair Portia's counterfeit," with the following lines, and the implied ideal of sculpture in the Winter's Tale, are wholly unanswerable instances. But Shakespere's evidence in matters of art is as narrow as the range of Elizabethan art in England, and resolves itself wholly into admiration of two things, — mockery of life (as in this instance of Hermione as a statue), or absolute splendour, as in the close of Romeo and Juliet, where the notion of *gold* as the chief source of dignity of aspect, coming down to Shakespere from the times of the Field of the Cloth of Gold, and, as I said before, strictly Elizabethan, would interfere seriously with the pathos of the whole passage, but for the sense of sacrifice implied in it:

"As rich shall Romeo by his lady lie,  
Poor sacrifices of our enmity."

- § 32. And observe, I am not giving these examples as proof of any smallness in Shakespere, but of his greatness; that is to say, of his contentment, like every other great man who ever breathed, to paint nothing but *what he saw*; and therefore giving perpetual



evidence that his sight was of the sixteenth, and not of the thirteenth century, beneath all the broad and eternal humanity of his imagination. How far in these modern days, emptied of splendour, it may be necessary for great men having certain sympathies for those earlier ages, to act in this differently from all their predecessors; and how far they may succeed in the resuscitation of the past by habitually dwelling in all their thoughts among vanished generations, are questions, of all practical and present ones concerning art, the most difficult to decide; for already in poetry several of our truest men have set themselves to this task, and have indeed put more vitality into the shadows of the dead than most others can give the presences of the living. Thus Longfellow, in the *Golden Legend*, has entered more closely into the temper of the Monk, for good and for evil, than ever yet theological writer or historian, though they may have given their life's labour to the analysis: and, again, Robert Browning is unerring in every sentence he writes of the Middle Ages; always vital, right, and profound; so that in the matter of art, with which we have been specially concerned, there is hardly a principle connected with the mediæval temper, that he has not struck upon in those seemingly careless and too rugged rhymes of his. There is a curious instance, by the way, in a short poem referring to this very subject of tomb and image sculpture; and illustrating just one of those phases of local human character which, though belonging to Shakespeare's own age, he never noticed, because it was specially Italian and un-English; connected also closely with the influence of mountains on the heart, and therefore with our immediate inquiries. I mean the kind of admiration with which a southern artist regarded the *stone* he worked in; and the pride which populace or priest took in the possession of precious mountain substance, worked into the pavements of their cathedrals, and the shafts of their tombs.

- § 33. Observe, Shakespeare, in the midst of architecture and tombs of wood, or freestone, or brass, naturally thinks of *gold* as the best enriching and ennobling substance for them;—in the midst also of the fever of the Renaissance he writes, as every one else

did, in praise of precisely the most vicious master of that school—Giulio Romano; but the modern poet, living much in Italy, and quit of the Renaissance influence, is able fully to enter into the Italian feeling, and to see the evil of the Renaissance tendency, not because he is greater than Shakespere, but because he is in another element, and has *seen* other things. I miss fragments here and there not needed for my purpose in the passage quoted, without putting asterisks, for I weaken the poem enough by the omissions, without spoiling it also by breaks.

*"The Bishop orders his Tomb in St. Praxed's Church."*

"As here I lie

In this state chamber, dying by degrees,  
Hours, and long hours, in the dead night, I ask,  
Do I live — am I dead? Peace, peace, seems all:  
St. Praxed's ever was the church for peace.  
And so, about this tomb of mine. I fought  
With tooth and nail to save my niche, ye know;  
Old Gandolf<sup>1</sup> cozened me, despite my care.  
Shrewd was that snatch from out the corner south  
He graced his carrion with.  
Yet still my niche is not so cramped but thence  
One sees the pulpit o' the epistle side,  
And somewhat of the choir, those silent seats;  
And up into the airy dome where live  
The angels, and a sunbeam's sure to lurk.  
And I shall fill my slab of basalt there,  
And 'neath my tabernacle take my rest,  
With those nine columns round me, two and two,  
The odd one at my feet, where Anselm<sup>2</sup> stands;  
Peach-blossom marble all.  
Swift as a weaver's shuttle fleet our years:  
Man goeth to the grave, and where is he?  
Did I say basalt for my slab, sons? Black —  
'Twas ever antique-black<sup>3</sup> I meant! How else  
Shall ye contrast my frieze to come beneath?  
The bas-relief in bronze ye promised me,  
Those Pans and Nymphs ye wot of, and perchance  
Some tripod, thyrsus, with a vase or so,  
The Saviour at his sermon on the mount,

<sup>1</sup> The last bishop.

<sup>2</sup> His favourite son; nominally his nephew.

<sup>3</sup> "Nero Antico" is more familiar to our ears; but Browning does right in translating it; as afterwards "cipollino" into "onion-stone." Our stupid habit of using foreign words without translation is continually losing us half the force of the foreign language. How many travellers hearing the term "cipollino" recognize the intended sense of a stone splitting into concentric coats, like an onion?

St. Praxed in a glory, and one Pan,  
 And Moses with the tables . . . but I know  
 Ye mark me not ! What do they whisper thee,  
 Child of my bowels, Anselm ? Ah, ye hope  
 To revel down my villas while I gasp,  
 Bricked o'er with beggar's mouldy travertine,  
 Which Gandolf from his tomb-top chuckles at !  
 Nay, boys, ye love me—all of jasper, then !  
 There's plenty jasper somewhere in the world—  
 And have I not St. Praxed's ear to pray  
 Horses for ye, and brown Greek manuscripts.  
 That's if ye carve my epitaph aright,  
 Choice Latin, picked phrase, Tully's every word,  
 No gaudy ware like Gandolf's second line—  
 Tully, my masters ? Ulpian serves *his* need."

- § 34. I know no other piece of modern English, prose or poetry, in which there is so much told, as in these lines, of the Renaissance spirit,—its worldliness, inconsistency, pride, hypocrisy, ignorance of itself, love of art, of luxury, and of good Latin. It is nearly all that I said of the central Renaissance in thirty pages of the "Stones of Venice" put into as many lines, Browning's being also the antecedent work. The worst of it is that this kind of concentrated writing needs so much *solution* before the reader can fairly get the good of it, that people's patience fails them, and they give the thing up as insoluble; though, truly, it ought to be to the current of common thought like Saladin's talisman, dipped in clear water, not soluble altogether, but making the element medicinal.
- § 35. It is interesting, by the way, with respect to this love of stones in the Italian mind, to consider the difference necessitated in the English temper merely by the general domestic use of wood instead of marble. In that old Shakesperian England, men must have rendered a grateful homage to their oak forests, in the sense of all that they owed to their goodly timbers in the wainscot and furniture of the rooms they loved best, when the blue of the frosty midnight was contrasted, in the dark diamonds of the lattice, with the glowing brown of the warm, fire-lighted, crimson-tapestried walls. Not less would an Italian look with a grateful regard on the hill summits, to which he owed, in the scorching of his summer noonday, escape into the marble corridor or crypt palpitating only with cold and smooth variegation of the un-

fevered mountain veins. In some sort, as, both in our stubbornness and our comfort, we not unfitly describe ourselves typically as Hearts of Oak, the Italians might in their strange and variegated mingling of passion, like purple colour, with a cruel sternness, like white rock, truly describe themselves as Hearts of Stone.

§ 36. Into this feeling about marble in domestic use, Shakespere, having seen it even in northern luxury, could partly enter, and marks it in several passages of his Italian plays. But if the reader still doubts his limitation to his own experience in all subjects of imagination, let him consider how the removal from mountain influence in his youth, so necessary for the perfection of his lower human sympathy, prevented him from ever rendering with any force the feelings of the mountain anchorite, or indicating in any of his monks the deep spirit of monasticism. Worldly cardinals or nuncios he can fathom to the uttermost; but where, in all his thoughts, do we find St. Francis, or Abbot Samson? The "Friar" of Shakespere's plays is almost the only stage conventionalism which he admitted; generally nothing more than a weak old man, who lives in a cell, and has a rope about his waist.

§ 37. While, finally, in such slight allusions as he makes to mountain scenery itself, it is very curious to observe the accurate limitation of his sympathies to such things as he had known in his youth; and his entire preference of human interest, and of courtly and kingly dignities, to the nobleness of the hills. This is most marked in *Cymbeline*, where the term "mountaineer" is, as with Dante, always one of reproach; and the noble birth of *Arviragus* and *Guiderius* is shown by their holding their mountain cave as

"A cell of ignorance; travelling abed.  
A prison for a debtor;"

and themselves, educated among hills, as in all things contemptible:

"We are beastly; subtle as the fox, for prey;  
Like warlike as the wolf, for what we eat:  
Our valour is to chase what flies; our cage  
We make our choir, as doth the prisoned bird."

A few phrases occur here and there which might justify the supposition that he had seen high mountains, but never implying awe or admiration. Thus Demetrius:

*"These things seem small and indistinguishable,  
Like far off mountains, turned into clouds."*

"Taurus snow," and the "frosty Caucasus," are used merely as types of purity or cold; and though the avalanche is once spoken of as an image of power, it is with instantly following depreciation:

*"Rush on his host, as doth the melted snow  
Upon the vallies, whose low vassal seat  
The Alps doth spit, and void his rheum upon."*

§ 38. There was only one thing belonging to hills that Shakespere seemed to feel as noble — the pine tree, and that was because he had seen it in Warwickshire, clumps of pine occasionally rising on little sandstone mounds, as at the place of execution of Piers Gaveston, above the lowland woods. He touches on this tree fondly again and again:

*"As rough,  
Their royal blood enchafed, as the rud'st wind,  
That by his top doth take the mountain pine,  
And make him stoop to the vale."*

*"The strong-based promontory  
Have I made shake, and by the spurs plucked up  
The pine and cedar."*

Where note his observance of the peculiar horizontal roots of the pine, spurred as it is by them like the claw of a bird, and partly propped, as the aiguilles by those rock promontories at their bases which I have always called their spurs, this observance of the pine's strength and animal-like grasp being the chief reason for his choosing it, above other trees, for Ariel's prison. Again:

*"You may as well forbid the mountain pines  
To wag their high tops, and to make no noise  
When they are fretted with the gusts of heaven."*

And yet again :

“ But when, from under this terrestrial ball,  
He fires the proud tops of the eastern pines.”

We may judge, by the impression which this single feature of hill scenery seems to have made on Shakespere's mind, because he had seen it in his youth, how his whole temper would have been changed if he had lived in a more sublime country, and how essential it was to his power of contemplation of mankind that he should be removed from the sterner influences of nature. For the rest, so far as Shakespere's work has imperfections of any kind, — the trivialness of many of his adopted plots, for instance, and the comparative rarity with which he admits the ideal of an enthusiastic virtue arising out of principle; virtue being with him, for the most part, founded simply on the affections joined with inherent purity in his women, or on mere manly pride and honour in his men<sup>1</sup>; — in a word, whatever difference, involving inferiority, there exists between him and Dante, in his conceptions of the relation between this world and the next, we may

<sup>1</sup> I mean that Shakespere almost always implies a total difference in *nature* between one human being and another; one being from the birth, pure and affectionate, another base and cruel; and he displays each, in its sphere, as having the nature of dove, wolf, or lion, never much implying the government or change of nature by any external principle. There can be no question that in the main he is right in this view of human nature; still, the other form of virtue does exist occasionally, and was never, as far as I recollect, taken much note of by him. And with this stern view of humanity, Shakespere joined a sorrowful view of Fate, closely resembling that of the ancients. He is distinguished from Dante eminently by his always dwelling on last causes instead of first causes. Dante invariably points to the moment of the soul's choice which fixed its fate, to the instant of the day when it read no farther, or determined to give bad advice about Penestrino. But Shakespere always leans on the force of Fate, as it urges the final evil; and dwells with infinite bitterness on the power of the wicked, and the infinitude of result dependent seemingly on little things. A fool brings the last piece of news from Verona, and the dearest lives of its noble houses are lost; they might have been saved, if the sacristan had not stumbled as he walked. Othello mislays his handkerchief, and there remains nothing for him but death. Hamlet gets hold of the wrong foil, and the rest is silence. Edmund's runner is a moment too late at the prison, and the feather will not move at Cordelia's lips. Salisbury a moment too late at the tower, and Arthur lies on the stones dead. Goneril and Iago have on the whole, in this world, Shakespere sees, much of their own way, though they come to a bad end. It is a pin that Death pierces the king's fortress wall with; and Carelessness and Folly sit sceptred and dreadful, side by side with the pin-armed skeleton.

partly trace, as we did the difference between Bacon and Pascal, to the less noble character of the scenes around him in his youth; and admit that, though it was necessary for his special work that he should be put, as it were, on a level with his race, on those plains of Stratford, we should see in this a proof, instead of a negation, of the mountain power over human intellect. For breadth and perfectness of condescending sight, the Shakesperian mind stands alone; but in *ascending* sight it is limited. The breadth of grasp was innate; the stoop and slightness of it was given by the circumstances of scene: and the difference between those careless masques of heathen gods, or unbelieved, though mightily conceived visions of fairy, witch, or risen spirit, and the earnest faith of Dante's vision of Paradise, is the true measure of the difference in influence between the willowy banks of Avon, and the purple hills of Arno.

§ 39. Our third inquiry, into the influence of mountains on domestic and military character, was, we said, to be deferred; for this reason, that it is too much involved with the consideration of the influence of simple rural life in unmountainous districts, to be entered upon with advantage until we have examined the general beauty of vegetation, whether lowland or mountainous. I hope to pursue this inquiry, therefore, at the close of the next volume; only desiring, in the meantime, to bring one or two points connected with it under the consideration of our English travellers.

§ 40. For, it will be remembered, we first entered on this subject in order to obtain some data as to the possibility of a Practical Ideal in Swiss life, correspondent, in some measure, to the poetical ideal of the same, which so largely entertains the European public. Of which possibility, I do not think, after what we have even already seen of the true effect of mountains on the human mind, there is any reason to doubt, even if that ideal had not been presented to us already in some measure, in the older life of the Swiss republics. But of its possibility, *under present circumstances*, there is, I grieve to say, the deepest reason to doubt; and that the more, because the question is not whether the mountaineer can be raised into a happier life by the help of the active nations

of the plains; but whether he can yet be protected from the infection of the folly and vanity of those nations. I urged, in the preceding chapter, some consideration of what might be accomplished, if we chose to devote to the help, what we now devote to the mockery, of the Swiss. But I would that the enlightened population of Paris and London were content with doing nothing; — that they were satisfied with expenditure upon their idle pleasures, in their idle way; and would leave the Swiss to their own mountain gloom of unadvancing independence. I believe that every franc now spent by travellers among the Alps tends more or less to the undermining of whatever special greatness there is in the Swiss character; and the persons I met in Switzerland, whose position and modes of life rendered them best able to give me true information respecting the present state of their country, among many causes of national deterioration, spoke with chief fear of the influx of English wealth, gradually connecting all industry with the wants and ways of strangers, and inviting all idleness to depend upon their casual help; thus gradually resolving the ancient consistency and pastoral simplicity of the mountain life into the two irregular trades of innkeeper<sup>1</sup> and mendicant.

- § 41. I could say much on this subject if I had any hope of doing good by saying anything. But I have none. The influx of foreigners into Switzerland must necessarily be greater every year, and the greater it is, the larger, in the crowd, will be the majority of persons whose objects in travelling will be, first, to get as fast as possible from place to place, and, secondly, at every place where they arrive, to obtain the kind of accommodation and amusement to which they are accustomed in Paris, London, Brighton, or Baden. Railroads are already projected round the head of the Lake of Geneva, and through the town of Fribourg;

<sup>1</sup> Not the old hospitable innkeeper, who honoured his guests and was honoured by them, than whom I do not know a more useful or worthy character; but the modern innkeeper, proprietor of a building in the shape of a factory, making up three hundred beds; who necessarily regards his guests in the light of Numbers 1, 2, 3—300, and is too often felt or apprehended by them only as a presiding influence of extortion.



the head of the Lake of Geneva being precisely and accurately the one spot of Europe whose character, and influence on human mind, are special; and unreplaceable if destroyed, no other spot resembling, or being in any wise comparable to it, in its peculiar way: while the town of Fribourg is in like manner the only mediæval mountain town of importance left to us; Inspruck and such others being wholly modern, while Fribourg yet retains much of the aspect it had in the fourteenth and fifteenth centuries. The valley of Chamouni, another spot also unique in its way, is rapidly being turned into a kind of Cremorne Gardens; and I can foresee, within the perspective of but few years, the town of Lucerne consisting of a row of symmetrical hotels round the foot of the lake, its old bridges destroyed, an iron one built over the Reuss, and an acacia promenade carried along the lake-shore, with a German band playing under a Chinese temple at the end of it, and the enlightened travellers, representatives of European civilization, performing before the Alps, in each afternoon summer sunlight, in their modern manner, the Dance of Death.

§ 42. All this is inevitable; and it has its good as well as its evil side. I can imagine the zealous modernist replying to me that when all this is happily accomplished, my melancholy peasants of the valley of Trient will be turned into thriving shopkeepers, the desolate streets of Sion into glittering thoroughfares, and the marshes of the Valais into prosperous market-gardens. I hope so; and indeed am striving every day to conceive more accurately, and regulate all my efforts by the expectation of, the state of society, not now, I suppose, much more than twenty years in advance of us, when Europe, having satisfactorily effaced all memorials of the past, and reduced itself to the likeness of America, or of any other new country (only with less room for exertion), shall begin to consider what is next to be done, and to what newness of arts and interests may best be devoted the wealth of its marts, and the strength of its multitudes. Which anticipations and estimates, however, I have never been able, as yet, to carry out with any clearness, being always arrested by the confused notion of a necessity for solitude, disdain of buying and selling,

and other elements of that old mediæval and mountain gloom, as in some way connected with the efforts of nearly all men who have either seen far into the destiny, or been much helpful to the souls, of their race. And the grounds of this feeling, whether right or wrong, I hope to analyze more fully in the next volume; only noting, finally, in this, one or two points for the consideration of those among us with whom it may sometimes become a question, whether they will help forward, or not, the turning of a sweet mountain valley into an abyss of factory-stench and toil, or the carrying of a line of traffic through some green place of shepherd solitude.

- § 43. For, if there be any truth in the impression which I have always felt, and just now endeavoured to enforce, that the mountains of the earth are its natural cathedrals, or natural altars, overlaid with gold, and bright with brodered work of flowers, and with their clouds resting on them as the smoke of a continual sacrifice, it may surely be a question with some of us, whether the tables of the moneychanger, however fit and commendable they may be as furniture in other places, are precisely the things which it is the whole duty of man to get well set up in the mountain temple.
- § 44. And perhaps it may help to the better determination of this question, if we endeavour, for a few patient moments, to bear with that weakness of our forefathers in feeling an *awe* for the hills; and, divesting ourselves, as far as may be, of our modern experimental or exploring activity, and habit of regarding mountains chiefly as places for gymnastic exercise, try to understand the temper, not indeed altogether exemplary, but yet having certain truths and dignities in it, to which we owe the founding of the Benedictine and Carthusian cloisters in the thin Alpine air. And this monkish temper we may, I suppose, best understand by considering the aspect under which mountains are represented in the Monk's book. I found that in my late lectures, at Edinburgh, I gave great offence by supposing, or implying, that scriptural expressions could have any force as bearing upon modern practical questions; so that I do not now, nor shall I any more, allude to such expressions as in any wise necessarily

bearing on the worldly business of the practical Protestant, but only as necessary to be glanced at in order to understand the temper of those old monks, who had the awkward habit of understanding the Bible literally; and to get any little good which momentary sympathy with the hearts of a large and earnest class of men may surely bring to us.

§ 45. The monkish view of mountains, then, already alluded to<sup>1</sup>, was derived wholly from that Latin Vulgate of theirs; and, speaking as a monk, it may perhaps be permitted me to mark the significance of the earliest mention of mountains in the Mosaic books; at least, of those in which some Divine appointment or command is stated respecting them. They are first brought before us as refuges for God's people from the two judgments of water and fire. The ark *rests* upon "the mountains of Ararat;" and man, having passed through that great baptism unto death, kneels upon the earth first where it is nearest heaven, and mingles with the mountain clouds the smoke of his sacrifice of thanksgiving. Again: from the midst of the first judgment by fire, the command of the Deity to His servant is, "Escape to the mountain;" and the morbid fear of the hills, which fills any human mind after long stay in places of luxury and sin, is strangely marked in Lot's complaining reply: "I cannot escape to the mountain, lest some evil take me." The third mention, in way of ordinance, is a far more solemn one: "Abraham lifted up his eyes, and saw the place afar off." "The Place," the Mountain of Myrrh, or of bitterness, chosen to fulfil to all the seed of Abraham, far off and near, the inner meaning of promise regarded in that vow: "I will lift up mine eyes unto the hills, from whence cometh mine help."

And the fourth is the delivery of the law on Sinai.

§ 46. It seemed, then, to the monks, that the mountains were appointed by their Maker to be to man, refuges from Judgment, signs of Redemption, and altars of Sanctification and obedience; and they saw them afterwards connected, in the manner the most touching and gracious, with the death, after his task had

<sup>1</sup> Vol. III. Chap. XIV. § 10

been accomplished, of the first anointed Priest; the death, in like manner, of the first inspired Lawgiver; and, lastly, with the assumption of his office by the Eternal Priest, Lawgiver, and Saviour.

Observe the connection of these three events. Although the *time* of the deaths of Aaron and Moses was hastened by God's displeasure, we have not, it seems to me, the slightest warrant for concluding that the *manner* of their deaths was intended to be grievous or dishonourable to them. Far from this: it cannot, I think, be doubted that in the denial of the permission to enter the Promised Land, the whole punishment of their sin was included; and that as far as regarded the manner of their deaths, it must have been appointed for them by their Master in all tenderness and love; and with full purpose of ennobling the close of their service upon the earth. It might have seemed to *us* more honourable that both should have been permitted to die beneath the shadow of the Tabernacle, the congregation of Israel watching by their side; and all whom they loved gathered together to receive the last message from the lips of the meek lawgiver, and the last blessing from the prayer of the anointed priest. But it was not thus they were permitted to die. Try to realize that going forth of Aaron from the midst of the congregation. He who had so often done sacrifice for their sin, going forth now to offer up his own spirit. He who had stood, among them, between the dead and the living, and had seen the eyes of all that great multitude turned to him, that by his intercession their breath might yet be drawn a moment more, going forth now to meet the Angel of Death face to face, and deliver himself into his hand. Try if you cannot walk, in thought, with those two brothers, and the son, as they passed the outmost tents of Israel, and turned, while yet the dew lay round about the camp, towards the slopes of Mount Hor; talking together for the last time, as step by step, they felt the steeper rising of the rocks, and hour after hour, beneath the ascending sun, the horizon grew broader as they climbed, and all the folded hills of Idumea, one by one subdued, showed amidst their hollows in the haze of noon, the windings of that long desert journey, now at last to close. But

who shall enter into the thoughts of the High Priest, as his eye followed those paths of ancient pilgrimage; and, through the silence of the arid and endless hills, stretching even to the dim peak of Sinai, the whole history of those forty years was unfolded before him, and the mystery of his own ministries revealed to him; and that other Holy of Holies, of which the mountain peaks were the altars, and the mountain clouds the veil, the firmament of his Father's dwelling, opened to him still more brightly and infinitely as he drew nearer his death; until at last, on the shadeless summit,—from him on whom sin was to be laid no more— from him, on whose heart the names of sinful nations were to press their graven fire no longer,—the brother and the son took breastplate and ephod, and left him to his rest.

- § 47. There is indeed a secretness in this calm faith and deep restraint of sorrow, into which it is difficult for us to enter; but the death of Moses himself is more easily to be conceived, and had in it circumstances still more touching, as far as regards the influence of the external scene. For forty years Moses had not been alone. The care and burden of all the people, the weight of their woe, and guilt, and death, had been upon him continually. The multitude had been laid upon him as if he had conceived them; their tears had been his meat, night and day, until he had felt as if God had withdrawn His favour from him, and he had prayed that he might be slain, and not see his wretchedness.<sup>1</sup> And now, at last, the command came, "Get thee up into this mountain." The weary hands that had been so long stayed up against the enemies of Israel, might lean again upon the shepherd's staff, and fold themselves for the shepherd's prayer—for the shepherd's slumber. Not strange to his feet, though forty years unknown, the roughness of the bare mountain-path, as he climbed from ledge to ledge of Abarim; not strange to his aged eyes the scattered clusters of the mountain herbage, and the broken shadows of the cliffs, indented far across the silence of uninhabited ravines; scenes such as those among which, with none, as now, beside him but God, he had led his flocks so often; and which he had left,

<sup>1</sup> Numbers, xi. 12. 15.

how painfully ! taking upon him the appointed power, to make of the fenced city a wilderness, and to fill the desert with songs of deliverance. It was not to embitter the last hours of his life that God restored to him, for a day, the beloved solitudes he had lost ; and breathed the peace of the perpetual hills around him, and cast the world in which he had laboured and sinned far beneath his feet, in that mist of dying blue ; — all sin, all wandering, soon to be forgotten for ever ; the Dead Sea — a type of God's anger understood by him, of all men, most clearly, who had seen the earth open her mouth, and the sea his depth, to overwhelm the companies of those who contended with his Master — laid waveless beneath him ; and beyond it, the fair hills of Judah, and the soft plains and banks of Jordan, purple in the evening light as with the blood of redemption, and fading in their distant fulness into mysteries of promise and of love. There, with his unabated strength, his undimmed glance, lying down upon the utmost rocks, with angels waiting near to contend for the spoils of his spirit, he put off his earthly armour. We do deep reverence to his companion prophet, for whom the chariot of fire came down from heaven ; but was his death less noble, whom his Lord Himself buried in the vales of Moab, keeping, in the secrets of the eternal counsels, the knowledge of a sepulchre, from which he was to be called, in the fulness of time, to talk with that Lord, upon Hermon, of the death that He should accomplish at Jerusalem ?

And lastly, let us turn our thoughts for a few moments to the cause of the resurrection of these two prophets. We are all of us too much in the habit of passing it by, as a thing mystical and inconceivable, taking place in the life of Christ for some purpose not by us to be understood, or, at the best, merely as a manifestation of His divinity by brightness of heavenly light, and the ministering of the spirits of the dead, intended to strengthen the faith of His three chosen apostles. And in this, as in many other events recorded by the Evangelists, we lose half the meaning, and evade the practical power upon ourselves, by never accepting in its fulness the idea that our Lord was "perfect man," "tempted in all things like as we are." Our preachers are

continually trying, in all manner of subtle ways, to explain the union of the Divinity with the Manhood, an explanation which certainly involves first their being able to describe the nature of Deity itself, or, in plain words, to comprehend God. They never can explain, in any one particular, the union of the natures; they only succeed in weakening the faith of their hearers as to the entireness of either. The thing they have to do is precisely the contrary of this—to insist upon the *entireness* of both. We never think of Christ enough as God, never enough as Man; the instinctive habit of our minds being always to miss of the Divinity, and the reasoning and enforced habit to miss of the Humanity. We are afraid to harbour in our own hearts, or to utter in the hearing of others, any thought of our Lord, as hungering, tired, sorrowful, having a human soul, a human will, and affected by events of human life as a finite creature is; and yet one half of the efficiency of His atonement, and the whole of the efficiency of His example, depend on His having been this to the full.

§ 48. Consider, therefore, the Transfiguration as it relates to the human feelings of our Lord. It was the first definite preparation for His death. He had foretold it to His disciples six days before; then takes with Him the three chosen ones into “an high mountain apart.” From an exceeding high mountain, at the first taking on Him the ministry of life, He had beheld, and rejected the kingdoms of the earth, and their glory: now, on a high mountain, He takes upon Him the ministry of death. Peter and they that were with him, as in Gethsemane, were heavy with sleep. Christ’s work had to be done alone.

The tradition is, that the Mount of Transfiguration was the summit of Tabor; but Tabor is neither a high mountain, nor was it in any sense a mountain “*apart*,” being in those years both inhabited and fortified. All the immediately preceding ministries of Christ had been at Cesarea Philippi. There is no mention of travel southward in the six days that intervened between the warning given to His disciples, and the going up into the hill. What other hill could it be than the southward slope of that goodly mountain, Hermon, which is indeed the centre of all the Promised Land, from the entering in of Hamath unto the river of

Egypt; the mount of fruitfulness, from which the springs of Jordan descended to the valleys of Israel. Along its mighty forest avenues, until the grass grew fair with the mountain lilies, His feet dashed in the dew of Hermon, He must have gone to pray His first recorded prayer about death; and from the steep of it, before He knelt, could see to the south all the dwelling-place of the people that had sat in darkness, and seen the great light, the land of Zabulon and of Naphtali, Galilee of the nations; — could see, even with His human sight, the gleam of that lake by Capernaum and Chorazin, and many a place loved by Him, and vainly ministered to, whose house was now left unto them desolate; and, chief of all, far in the utmost blue, the hills above Nazareth, sloping down to His old home: hills on which yet the stones lay loose, that had been taken up to cast at Him, when He left them for ever.

- § 49. “And as he prayed, two men stood by him.” Among the many ways in which we miss the help and hold of Scripture, none is more subtle than our habit of supposing that, even as man, Christ was free from the Fear of Death. How could He then have been tempted as we are? since among all the trials of the earth, none spring from the dust more terrible than that Fear. It had to be borne by Him, indeed, in a unity, which we can never comprehend, with the foreknowledge of victory,—as His sorrow for Lazarus, with the consciousness of the power to restore him; but it *had* to be borne, and that in its full earthly terror; and the presence of it is surely marked for us enough by the rising of those two at His side. When, in the desert, He was girding Himself for the work of life, angels of life came and ministered unto Him; now, in the fair world, when He is girding Himself for the work of death, the ministrants come to Him from the grave.

But from the grave conquered. One, from that tomb under Abarim, which His own hand had sealed so long ago; the other, from the rest into which he had entered, without seeing corruption. There stood by Him Moses and Elias, and spake of His decease.

Then, when the prayer is ended, the task accepted, first,



since the star paused over Him at Bethlehem, the full glory falls upon Him from heaven, and the testimony is borne to his everlasting Sonship and power. "Hear ye him."

If, in their remembrance of these things, and in their endeavour to follow in the footsteps of their Master, religious men of bygone days, closing themselves in the hill solitudes, forgot sometimes, and sometimes feared, the duties they owed to the active world, we may perhaps pardon them more easily than we ought to pardon ourselves, if we neither seek any influence for good nor submit to it unsought, in scenes to which thus all the men whose writings we receive as inspired, together with their Lord, retired whenever they had any task or trial laid upon them needing more than their usual strength of spirit. Nor, perhaps, should we have unprofitably entered into the mind of the earlier ages, if among our other thoughts, as we watch the chains of the snowy mountains rise on the horizon, we should sometimes admit the memory of the hour in which their Creator, among their solitudes, entered on His travail for the salvation of our race; and indulge the dream, that as the flaming and trembling mountains of the earth seem to be the monuments of the manifesting of His terror on Sinai,—these pure and white hills, near to the heaven, and sources of all good to the earth, are the appointed memorials of that Light of His Mercy, that fell, snow-like, on the Mount of Transfiguration.



## APPENDIX.

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### I. MODERN GROTESQUE.

THE reader may perhaps be somewhat confused by the different tone with which, in various passages of these volumes, I have spoken of the dignity of Expression. He must remember that there are three distinct schools of expression, and that it is impossible, on every occasion when the term is used, to repeat the definition of the three, and distinguish the school spoken of.

There is, first, the Great Expressional School, consisting of the sincerely thoughtful and affectionate painters of early times, masters of their art, as far as it was known in their days. Orcagna, John Bellini, Perugino, and Angelico, are its leading masters. All the men who compose it are, without exception, *colourists*. The modern Pre-Raphaelites belong to it.

Secondly, the Pseudo-Expressional School, wholly of modern development, consisting of men who have never mastered their art, and are probably incapable of mastering it, but who hope to substitute sentiment for good painting. It is eminently characterized by its contempt of colour, and may be most definitely distinguished as the School of Clay.

Thirdly, the Grotesque Expressional School, consisting of men who, having peculiar powers of observation for the stronger signs of character in anything, and sincerely delighting in them, lose sight of the associated refinements or beauties. This school is apt, more or less, to catch at faults or strangenesses; and, associating its powers of observation with wit or malice, produces the wild, gay, or satirical grotesque in early sculpture, and in modern times, our rich and various popular caricature.

I took no note of this branch of art in the chapter on the Grotesque Ideal; partly because I did not wish to disturb the reader's mind in our examination of the great imaginative grotesque, and also because I did not feel able to give a distinct account of this branch, having never thoroughly considered the powers of eye and hand involved in its finer examples. But assuredly men of strong intellect and fine sense are found among the caricaturists, and it is to them that I allude in saying that the most subtle expression is often attained by "slight studies;" while it is of the pseudo-expressionist, or "high art" school that I am speaking, when I say that expression may "sometimes be elaborated by the toil of the dull;" in neither case meaning to depreciate the work, wholly different in every way, of the great expressional schools.

I regret that I have not been able, as yet, to examine with care the powers of mind involved in modern caricature. They are, however, always partial and imperfect; for the very habit of looking for the leading lines by the smallest possible number of which the expression may be attained, warps the power of *general* attention, and blunts the perception of the delicacies of the entire form and colour. Not that caricature, or exaggeration of points of character, may not be occasionally indulged in by the greatest men—as constantly by Leonardo; but then it will be found that the caricature consists, not in imperfect or violent *drawing*, but in delicate and perfect drawing of strange and exaggerated forms quaintly combined: and even thus, I believe, the habit of looking for such conditions will be found injurious; I strongly suspect its operation on Leonardo to have been the increase of his non-natural tendencies in his higher works. A certain acknowledgment of the ludicrous element is admitted in corners of the pictures of Veronese—in dwarfs or monkeys; but it is *never* caricatured or exaggerated. Tintoret and Titian hardly admit the element at all. They admit the noble grotesque to the full, in all its quaintness, brilliancy, and awe; but never any form of it depending on exaggeration, partiality, or fallacy.<sup>1</sup>

I believe, therefore, whatever wit, delicate appreciation of ordinary character, or other intellectual power may belong to the modern masters of caricature, their method of study for ever incapacitates them from passing beyond a certain point, and either reaching any of the perfect forms of art themselves, or understanding them in others. Generally speaking, their power is limited to the use of the pen or pencil—they cannot touch colour without discomfiture; and even those

<sup>1</sup> Compare Stones of Venice, vol. iii. chap. iii. § 74.

whose work is of higher aim, and wrought habitually in colour, are prevented by their pursuit of *piquant* expression from understanding noble expression. Leslie furnishes several curious examples of this defect of perception in his late work on Art;—talking, for instance, of the “insipid faces of Francia.”

On the other hand, all the real masters of caricature deserve honour in this respect, that their gift is peculiarly their own—innate and incommunicable. No teaching, no hard study, will ever enable other people to equal, in their several ways, the works of Leech or Cruikshank; whereas, the power of pure drawing is communicable, within certain limits, to every one who has good sight and industry. I do not, indeed, know how far, by devoting the attention to points of character, caricaturist skill may be laboriously attained; but certainly the power is, in the masters of the school, innate from their childhood.

Farther. It is evident that many subjects of thought may be dealt with by this kind of art which are inapproachable by any other, and that its influence over the popular mind must always be great; hence it may often happen that men of strong purpose may rather express themselves in this way (and continue to make such expression a matter of earnest study), than turn to any less influential, though more dignified, or even more intrinsically meritorious, branch of art. And when the powers of quaint fancy are associated (as is frequently the case) with stern understanding of the nature of evil, and tender human sympathy, there results a bitter, or pathetic spirit of grotesque, to which mankind at the present day owe more thorough moral teaching than to any branch of art whatsoever.

In poetry, the temper is seen, in perfect manifestation, in the works of Thomas Hood; in art, it is found both in various works of the Germans,—their finest, and their least thought of; and more or less in the works of George Cruikshank<sup>1</sup>, and in many of the illustrations of our popular journals. On the whole, the most impressive examples of it, in poetry and in art, which I remember are the Song of the Shirt, and the woodcuts of Alfred Rethel, before spoken of. A correspondent, though coarser work appeared some little time back in Punch, namely, the “General Février turned Traitor.”

The reception of the woodcut last named was in several respects a curious test of modern feeling. For the sake of the general reader, it may be well to state the occasion and character of it. It will be remembered by all that early in the winter of 1854-5, so fatal

<sup>1</sup> Taken all in all, the works of Cruikshank have the most sterling value of any belonging to this class, produced in England.

by its inclemency, and by our own improvidence, to our army in the Crimea, the late Emperor of Russia said, or was reported to have said, that "his best commanders, General January and General February, were not yet come." The word, if ever spoken, was at once base, cruel, and blasphemous; base, in precisely reversing the temper of all true soldiers, so nobly instanced by the son of Saladin, when he sent, at the very instant of the discomfiture of his own army, two horses to Cœur de Lion, whose horse had been killed under him in the mêlée; cruel, inasmuch as he ought not to have exulted in the thought of the death, by slow suffering, of brave men; blasphemous, inasmuch as it contained an appeal to Heaven of which he knew the hypocrisy. He himself died in February; and the woodcut of which I speak represented a skeleton in soldier's armour, entering his chamber, the driven sleet white on its cloak and crest; laying its hand on his heart as he lay dead.

There were some points to be regretted in the execution of the design, but the thought was a grand one; the memory of the word spoken, and of its answer, could hardly in any more impressive way have been recorded for the people; and I believe that to all persons accustomed to the earnest forms of art, it contained a profound and touching lesson. The notable thing was, however, that it offended all persons *not* in earnest, and was loudly cried out against by the polite formalism of society. This fate is, I believe, the almost inevitable one of thoroughly genuine work, in these days, whether poetry or painting; but what added to the singularity in this case was that *coarse* heartlessness was even more offended than polite heartlessness. Thus, Blackwood's Magazine,—which from the time that, with grace, judgment, and tenderness peculiarly its own, it bid the dying Keats "back to his gallipots<sup>1</sup>," to that in which it partly arrested the

<sup>1</sup> "The notice in Blackwood is still more scurrilous; the circumstance of Keats having been brought up a surgeon is the staple of the jokes of the piece. He is told 'it is a better and wiser thing to be a starved apothecary than a starved poet.'" —*Milnes' Life of Keats*, vol. i. p. 200., and compare pp. 193, 194. It may perhaps be said that I attach too much importance to the evil of base criticism; but those who think so have never rightly understood its scope, nor the reach of that stern saying of Johnson's (*Idler*, No. 3. April 29. 1758): "Little does he (who assumes the character of a critic) think how many harmless men he involves in his own guilt, by teaching them to be noxious without malignity, and to repeat objections which they do not understand." And truly, not in this kind only, but in all things whatsoever, there is not, to my mind, a more woful or wonderful matter of thought than the power of a fool. In the world's affairs there is no design so great or good but it will take twenty wise men to help it forward a few inches, and a single fool can stop it; there is no evil so great or so terrible but that, after a multitude

last efforts, and shortened the life of Turner, had with an infallible instinct for the wrong, given what pain it could, and withered what strength it could, in every great mind that was in anywise within its reach; and had made itself, to the utmost of its power, frost and disease of the heart to the most noble spirits of England,—took upon itself to be generously offended at this triumphing over the death of England's enemy, because, "by proving that he is obliged to undergo the common lot of all, his brotherhood is at once reasserted."<sup>1</sup> He was not, then, a brother while he was alive? or is our brother's blood in general not to be acknowledged by us till it rushes up against us from the ground? I know that this is a common creed, whether a peculiarly wise or Christian one may be doubted. It may not, indeed, be well to triumph over the dead, but perhaps it is less well that the world so often tries to triumph over the living. And as for exultation over a fallen foe (though there was *none* in the mind of the man who drew that monarch dead), it may be remembered that there have been worthy persons, before now, guilty of this great wickedness,—nay, who have even fitted the words of their exultation to timbrels, and gone forth to sing them in dances. There have even been those—women, too,—who could make a mock at the agony of a mother weeping over her lost son, when that son had been the enemy of their country; and their mock has been preserved, as worthy to be read by human eyes. "The mother of Sisera looked out at a window. 'Hath he not sped?'" I do not say this was right, still less that it was wrong; but only that it would be well for us if we could quit our habit of thinking that what we say of the dead is of more weight than what we say of the living. The dead either know nothing, or know enough to despise both us and our insults, or adulation.

"Well, but," it is answered, "there will always be this weakness in our human nature; we shall for ever, in spite of reason, take pleasure in doing funeral honour to the corpse, and writing sacredness to memory upon marble." Then, if you are to do this,—if you are to put off your kindness until death,—why not, in God's name, put off also your enmity? and if you choose to write your lingering affections upon

of counsellors have taken means to avert it, a single fool will bring it down. Pestilence, famine, and the sword, are given into the fool's hand as the arrows into the hand of the giant: and if he were fairly set forth in the right motley, the web of it should be sackcloth and sable; the bells on his cap, passing bells; his badge, a bear robbed of her whelps; and his bauble, a sexton's spade.

<sup>1</sup> By the way, this doubt of the possibility of an emperor's death till he *proves* it, is a curious fact in the history of Scottish metaphysics in the nineteenth century.

stones, wreak also your delayed anger upon clay. This would be just, and, in the last case, little as you think it, generous. The true baseness is in the bitter reverse—the strange iniquity of our folly. Is a man to be praised, honoured, pleaded for? It might do harm to praise or plead for him while he lived. Wait till he is dead. Is he to be maligned, dishonoured, and discomforted? See that you do it while he is alive. It would be too ungenerous to slander him when he could feel malice no more; too contemptible to try to hurt him when he was past anguish. Make yourselves busy, ye unjust, ye lying, ye hungry for pain! Death is near. This is your hour, and the power of darkness. Wait, ye just, ye merciful, ye faithful in love! Wait but for a little while, for this is not your rest.

“Well, but,” it is still answered, “is it not, indeed, ungenerous to speak ill of the dead, since they cannot defend themselves?”

Why should they? If you speak ill of them falsely, it concerns you, not them. Those lies of thine will “hurt a man as thou art,” assuredly they will hurt thyself; but that clay, or the delivered soul of it, in no wise. Ajacean shield, seven-folded, never stayed lance-thrust as that turf will, with daisies pied. What you say of those quiet ones is wholly and utterly the world’s affair and yours. The lie will, indeed, cost its proper price, and work its appointed work; you may ruin living myriads by it,—you may stop the progress of centuries by it,—you may have to pay your own soul for it,—but as for ruffling one corner of the folded shroud by it, think it not. The dead have none to defend them! Nay, they have two defenders, strong enough for the need—God, and the worm.

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## II. ROCK CLEAVAGE.

I AM well aware how insufficient, and, in some measure, how disputable, the account given in the preceding chapters of the cleavages of the slaty crystallines must appear to geologists. But I had several reasons, good or bad as they may be, for treating the subject in such a manner. The first was, that considering the science of the artist as eminently the science of *aspects* (see Vol. III. Chap. xvii. § 43.), I kept myself, in all my investigations of natural objects, as much as



possible in the state of an uninformed spectator of the outside of things, receiving simply what impressions the external phenomena first induce. For the natural tendency of accurate science is to make the possessor of it look for, and eminently see, the things connected with his special pieces of knowledge; and as all accurate science must be sternly limited, his sight of nature gets limited accordingly. I observed that all our young figure-painters were rendered, to all intents and purposes, *blind* by their knowledge of anatomy. They saw only certain muscles and bones, of which they had learned the positions by rote, but could not, on account of the very prominence in their minds of these bits of fragmentary knowledge, see the real movement, colour, rounding, or any other subtle quality of the human form. And I was quite sure that if I examined the mountain anatomy scientifically, I should go wrong, in like manner, touching the external aspects. Therefore in beginning the inquiries of which the results are given in the preceding pages, I closed all geological books, and set myself, as far as I could, to see the Alps in a simple, thoughtless, and untheorizing manner; but to *see* them, if it might be, thoroughly. If I am wrong in any of the statements made after this kind of examination, the very fact of this error is an interesting one, as showing the kind of deception which the external aspects of hills are calculated to induce in an unprejudiced observer; but, whether wrong or right, I believe the results I have given are those which naturally would strike an artist, and *ought* to strike him, just as the apparently domical form of the sky, and radiation of the sun's light, ought to be marked by him as pictorial phenomena, though the sky is not domical, and though the radiation of sunbeams is a perspective deception. There are, however, one or two points on which my opinions might seem more adverse to the usual positions of geologists than they really are, owing to my having left out many *qualifying* statements for fear of confusing the reader. These I must here briefly touch upon. And, first, I know that I shall be questioned for not having sufficiently dwelt upon slaty cleavages running transversely across series of beds, and for generally speaking as if the slaty crystalline rocks were merely dried beds of micaceous sand, in which the flakes of mica naturally lay parallel with the beds, or only at such an angle to them as is constantly assumed by particles of drift. Now the reason of this is simply that my own mountain experience has led me *always* among rocks which induced such an impression; that, in general, artists seeking for the noblest hill scenery, will also get among such rocks, and that therefore I judged it best to explain their structure completely, merely alluding (in Chap. x. § 7.) to the curious results of cross

cleavage among the softer slates, and leaving the reader to pursue the inquiry, if he cared to do so; although, in reality, it matters very little to the artist whether the slaty cleavage be across the beds or not, for to him the cleavage itself is always the important matter, and the stratification, if contrary to it, is usually so obscure as to be naturally, and therefore properly, least sight of. And touching the disputed question whether the micaceous arrangements of metamorphic rocks are the results of subsequent crystallization, or of aqueous deposition, I had no special call to speak: the whole subject appeared to me only more mysterious the more I examined it; but my own impressions were always strongly for the aqueous deposition; nor in such cases as that of the beds of the Matterhorn (drawn in Plate 39.), respecting which, somewhat exceptionally, I have allowed myself to theorize a little, does the matter appear to me disputable.

And I was confirmed in this feeling by De Saussure; the only writer whose help I did not refuse in the course of these inquiries. *His* I received for this reason,—all other geological writers whose works I had examined were engaged in the maintenance of some theory or other, and always gathering materials to support it. But I found Saussure had gone to the Alps as I desired to go myself, only to *look* at them, and describe them as they were, loving them heartily—loving them, the positive Alps, more than himself, or than science, or than any theories of science; and I found his descriptions, therefore, clear, and trustworthy; and that when I had not visited any place myself, Saussure's report upon it might always be received without question.

Not but that Saussure himself has a pet theory, like other human beings; only it is quite subordinate to his love of the Alps. He is a steady advocate of the aqueous crystallization of rocks, and never loses a fair opportunity of a blow at the Huttonians; but his opportunities are always *fair*, his description of what he sees is wholly impartial; it is only when he gets home and arranges his papers that he puts in the little aqueously inclined paragraphs, and never a paragraph without just cause. He may, perhaps, overlook the evidence on the opposite side; but in the Alps the igneous alteration of the rocks, and the modes of their upheaval, seem to me subjects of intense difficulty and mystery, and as such Saussure always treats them; the evidence for the original *deposition* by water of the slaty crystallines appears to him, as it does to me, often perfectly distinct.

Now, Saussure's universal principle was exactly the one on which I have founded my account of the slaty crystallines:—"Fidèle à mon principe, de ne regarder comme des couches, dans les montagnes schis-

teuses, que les divisions parallèles aux feuillets des schistes dont elles sont composées.”—*Voyages*, § 1747. I know that this is an arbitrary, and in some cases an assuredly false, principle; but the assumption of it by De Saussure proves all that I want to prove,—namely, that the beds of the slaty crystallines are in the Alps in so large a plurality of instances correspondent in direction to their folia, as to induce even a cautious reasoner to assume such correspondence to be universal.

The next point, however, on which I shall be opposed, is one on which I speak with far less confidence, for in this Saussure himself is against me,—namely, the parallelism of the beds sloping under the Mont Blanc. Saussure states twice, §§ 656. 677., that they are arranged in the form of a fan. I can only repeat that every measurement and every drawing I made in Chamouni led me to the conclusions stated in the text, and so I leave the subject to better investigators; this one fact being indisputable, and the only one on which for my purpose it is necessary to insist, that, whether in Chamouni the beds be radiant or not, to an artist's eye they are usually parallel; and throughout the Alps no phenomenon is more constant than the rounding of surfaces across the extremities of beds sloping outwards, as seen in my plates 37. 40. and 48., and this especially in the most majestic mountain masses. Compare De Saussure of the Grimsel, § 1712.: “Toujours il est bien remarquable que ces feuillets, verticaux au sommet, s'inclinent ensuite, comme à Chamouni, contre le dehors de la montagne:” and again of the granite at Guttannen, § 1679.: “Ces couches ne sont pas tout-à-fait verticales; elles s'appuyent un peu contre le Nord-Est, ou, comme à Chamouni, contre le dehors de la montagne.” Again, of the “quartz micacé” of Zumloch, § 1723.: “Ces rochers sont en couches à peu près verticales, dont les plans courent du Nord-Est au Sud-Ouest, en s'appuyant, *suivant l'usage*, contre l'extérieur de la montagne, ou contre la vallée. Again, on the Pass of the Gries, § 1738.: “Le rocher présente des couches d'un schiste micacé rayé comme une étoffe; comme de l'autre côté, ils surplombent vers le dehors de la montagne.” Without referring to other passages, I think Saussure's simple words, “suivant l'usage,” are enough to justify my statement in Chap. xiv. § 3.; only the reader must of course always remember that every conceivable position of beds takes place in the Alps, and all I mean to assert generally is, that where the masses are most enormous and impressive, and formed of slaty crystalline rocks, there the run of the beds up, as it were, from within the mountain to its surface, will, in all probability, become a notable feature in the scene as regarded by an artist.

One somewhat unusual form assumed by horizontal beds of slaty crystallines, or of granite, is described by Saussure with unusual admiration ; and the passage is worth extracting, as bearing on the terraced ideal of rocks in the middle ages. The scene is in the Val Formazza.

“ Indépendamment de l'intérêt que ces couches présentent au géologue sous un nombre de rapports qu'il seroit trop long et peut-être inutile de détailler, elles présentent même pour le peintre, un superbe tableau. Je n'ai jamais vu de plus beaux rochers et distribués en plus grandes masses ; ici, blancs ; là, noircis par les lichens ; là, peints de ces belles couleurs variées, que nous admirions au Grimsel, et entremêlés d'arbres, dont les uns couronnent le faite de la montagne, et d'autres sont inégalement jetés sur les corniches qui en séparent les couches. Vers le bas de la montagne l'œil se repose sur de beaux vergers, dans des prairies dont le terrain est inégal et varié, et sur de magnifiques châtaigniers, dont les branches étendues ombragent les rochers contre lesquels ils croissent. En général, ces granits en couches horizontales rendent ce pays charmant ; car, quoiqu'il y ait, comme je l'ai dit, des couches qui forment des saillies, cependant elles sont pour l'ordinaire arrangées en gradins, ou en grandes assises posées en reculement les unes derrière les autres, et les bords de ces gradins sont couverts de la plus belle verdure, et d'arbres distribués de la manière la plus pittoresque. On voit même des montagnes très-élevées, qui ont la forme de pain de sucre, et qui sont entourées et couronnées jusqu'à leur sommet, de guirlandes d'arbres assis sur les intervalles des couches, et qui forment l'effet du monde le plus singulier.” — *Voyages*, § 1758.

Another statement, which I made generally, referring, for those qualifications which it is so difficult to give without confusing the reader, to this appendix, was that of the usually greater hardness of the tops of mountains as compared with their flanks. My own experience among the Alps has furnished me with few exceptions to this law ; but there is a very interesting one, according to Saussure, in the range of the Furca del Bosco. (*Voyages*, § 1779.)

Lastly, at page 189. of this volume, I have alluded to the various cleavages of the aiguilles, out of which one only has been explained and illustrated. I had not intended to treat the subject so partially ; and had actually prepared a long chapter, explaining the relations of five different and important systems of cleavage in the Chamouni aiguilles. When it was written, however, I found it looked so repulsive to readers in general, and proved so little that was of interest even to readers in particular, that I cancelled it, leaving only the

account of what I might, perhaps, not unjustifiably (from the first representation of it in the *Liber Studiorum*) call Turner's cleavage. The following passage, which was the introduction to the chapter, may serve to show that I have not ignored the others, though I found, after long examination, that Turner's was the principal one : —

" One of the principal distinctions between these crystalline masses and stratified rocks, with respect to their outwardly apparent structure, is the subtle complexity and number of *ranks* in their crystalline cleavages. The stratified masses have always a simply intelligible organization ; their beds lie in one direction, and certain fissures and fractures of those beds lie in other clearly ascertainable directions ; seldom more than two or three *distinct* directions of these fractures being admitted. But if the traveller will set himself deliberately to watch the shadows on the aiguilles of Chamouni as the sun moves round them, he will find that nearly every quarter of an hour a new *set* of cleavages becomes visible, not confused and orderless, but a series of lines inclining in some one definite direction, and that so positively, that if he had only seen the aiguille at that moment, he would assuredly have supposed its internal structure to be altogether regulated by the lines of bed or cleavage then in sight. Let him, however, wait for another quarter of an hour, and he will see those lines fade entirely away as the sun rounds them ; and another set, perhaps quite adverse to them, and assuredly lying in another direction, will as gradually become visible, to die away in their turn, and be succeeded by a third scheme of structure.

" These 'dissolving views' of the geology of the aiguilles have often thrown me into despair of ever being able to give any account of their formation ; but just in proportion as I became aware of the infinite complexity of their framework, the one great fact rose into more prominent and wonderful relief,—that through this inextricable complexity there was always manifested *some* authoritative principle. It mattered not at what hour of the day the aiguilles were examined, at that hour they had a system of structure belonging to the moment. No confusion nor anarchy ever appeared amidst their strength, but an ineffable order, only the more perfect because incomprehensible. They differed from lower mountains, not merely in being more compact, but in being more disciplined.

" For, observe, the lines which cause these far-away effects of shadow, are not, as often in less noble rocks, caused by real cracks through the body of the mountain ; for, were this so, it would follow, from what has just been stated, that these aiguilles were cracked through and through in every direction, and therefore actually weaker, instead

of stronger, than other rocks. But the appearance of fracture is entirely external, and the sympathy or parallelism of the lines indicates, not an actual splitting through the rock, but a mere disposition in the rock to split harmoniously when it is compelled to do so. Thus, in the shell-like fractures on the flank of the Aiguille Blaitière, the rock is not actually divided, as it appears to be, into successive hollow plates. Go up close to the inner angle between one bed of rock and the next, and the whole mass will be found as firmly united as a piece of glass. There is absolutely no crack between the beds, — no, not so much as would allow the blade of a penknife to enter for a quarter of an inch<sup>1</sup>; but such a subtle disposition to symmetry of fracture in the heart of the solid rock, that the next thunderbolt which strikes on that edge of it will rend away a shell-shaped fragment or series of fragments; and will either break it so as to continue the line of one of the existing sides, or in some other line parallel to that. And yet this resolvedness to break into shell-shaped fragments running north and south is only characteristic of the rock at this spot, and at certain other spots where similar circumstances have brought out this peculiar humour. Forty yards farther on it will be equally determined to break in another direction, and nothing will persuade it to the contrary. Forty yards farther it will change its mind again, and face its beds round to another quarter of the compass; and yet all these alternating caprices are each parts of one mighty continuous caprice, which is only masked for a time, as threads of one colour are in a patterned stuff by threads of another; and thus from a distance, precisely the same cleavage is seen repeated again and again in different places, forming a systematic structure; while other groups of cleavages will

<sup>1</sup> The following extract from my diary refers to the only instance in which I remember any appearance of a spring, or welling of water through inner fissures, in the aiguilles.

“20th August. Ascended the moraine till I reached the base of Blaitière; the upper part of the moraine excessively loose and edgy; covered with fresh snow; the rocks were wreathed in mist, and a light sleet, composed of small grains of kneaded snow, kept beating in my face; it was bitter cold too, though the thermometer was at 45°, but the wind was like that of an English December thaw. I got to the base of the aiguille, however, one of the most grand and sweeping bits of granite I have ever seen; a small gurgling streamlet, escaping from a fissure not wide enough to let in my hand, made a strange hollow ringing in the compact rock, and came welling out over its ledges with the sound, and successive wave, of water out of a narrow-necked bottle, covering the rock with ice (which must have been frozen there last night) two inches thick. I levelled the Breven top, and found it a little beneath me; the Charmoz glacier on the left, sank from the moraine in broken fragments of neve, and swept back under the dark walls of the Charmoz, lost in cloud.”

become visible in their turn, either as we change our place of observation, or as the sunlight changes the direction of its fall."

One part of these rocks, I think, no geologist interested in this subject should pass without examination; viz., the little spur of Blaitière drawn in Plate 29. Fig. 3. It is seen, as there shown, from the moraine of the Charmoz glacier, its summit bearing s. 40° w.; and its cleavage beds leaning to the left or s.e., against the Aiguille Blaitière. If, however, we go down to the extremity of the rocks themselves, on the right, we shall find that all those thick beams of rock are actually *sawn into vertical timbers* by another cleavage, sometimes so fine as to look almost slaty, directed straight s.e., against the aiguille, as if, continued, it would saw it through and through; finally, cross the spur and go down to the glacier below, between it and the Aiguille du Plan, and the bottom of the spur will be found presenting the most splendid mossy surfaces, through which the true gneissitic cleavage is faintly traceable, dipping *at right angles* to the beds in Fig. 3., or under the Aiguille Blaitière, thus concurring with the beds of La Côte.

I forgot to note that the view of this Aiguille Blaitière, given in Plate 39., was taken from the station marked *q* in the reference figure, p. 166.; and the sketch of the Aiguille du Plan at p. 191., from the station marked *r* in the same figure, a highly interesting point of observation in many respects; while the course of transition from the protogine into gneiss presents more remarkable phenomena on the descents from that point *r* to the Tapia, *r*, than at any other easily accessible spot.

Various interesting descriptions of granite cleavage will be found in De Saussure, chiefly in his accounts of the Grimsel and St. Gothard. The following summary of his observations on their positions of beds (§ 1774.), may serve to show the reader how long I should have detained him if I had endeavoured to give a description of all the attendant phenomena:—"Il est aussi bien curieux de voir ces gneiss, et ces granits veinés, en couches verticales à Guttannen; mélangées d'horizontales et de verticales au Lauteraar; toutes verticales au Grimsel et au Griès; toutes horizontales dans le Val Formazza, et enfin pour la troisième fois verticales à la sortie des Alpes à l'entrée du Lac Majeur."

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## III. LOGICAL EDUCATION.

In the Preface to the third volume I alluded to the conviction, daily gaining ground upon me, of the need of a more accurately logical education of our youth. Truly among the most pitiable and practically hurtful weaknesses of the modern English mind, its usual inability to grasp the connection between any two ideas which have elements of opposition in them, as well as of connection, is perhaps the chief. It is shown with singular fatality in the vague efforts made by our divines to meet the objections raised by free-thinkers, bearing on the nature and origin of evil; but there is hardly a sentence written on any matter requiring careful analysis, by writers who have not yet begun to perceive the influence of their own vanity (and there are too many such among divines), which will not involve some half-lamentable, half-ludicrous, logical flaw,—such flaws being the invariable consequence of a man's straining to say anything in a learned instead of an intelligible manner.

Take a sentence, for example, from J. A. James's "Anxious Inquirer:"—"It is a great principle that *subjective religion, or in other words, religion in us*, is produced and sustained by fixing the mind on *objective religion, or the facts and doctrines of the Word of God.*"

Cut entirely out the words I have put in italics, and the sentence has a meaning (though not by any means an important one). But by its verbiages it is extended into pure nonsense; for "facts" are neither "objective" nor "subjective"<sup>1</sup> religion; they are not religion at all. The belief of them, attended with certain feelings, is religion; and it must always be religion "in us," for in whom else should it be (unless in angels; which would not make it less "subjective"). It is just as rational to call doctrines "objective religion," as to call entreaties "objective compassion;" and the only real fact of any notability deducible from the sentence is, that the writer desired earnestly to say something profound, and had nothing profound to say.

To this same defect of intellect must, in charity, be attributed many of the wretched cases of special pleading which we continually hear from the pulpit. In the year 1853, I heard, in Edinburgh, a sermon from a leading and excellent Presbyterian clergyman, on a subject generally grateful to Protestant audiences, namely, the impro-

<sup>1</sup> If these two unlucky words get much more hold in the language, we shall soon have our philosophers refusing to call their dinner "dinner," but speaking of it always as their "objective appetite."



priety and wickedness of Fasting. The preacher entirely denied that there was any authority for fasting in the New Testament; declared that there were many feasts appointed, but no fasts; insisted with great energy on the words "forbidding to marry, and commanding to abstain from meats," &c., as descriptive of Romanism, and *never once*, throughout a long sermon, ventured so much as a single syllable that might recall to his audience's recollection the existence of such texts as Matthew iv. 2. and vi. 16., or Mark ix. 29. I have heard many sermons from Roman Catholic priests, but I never yet heard, in the strongest holds of Romanism, any so monstrous an instance of special pleading; in fact, it never could have occurred in a sermon by any respectable Roman Catholic divine; for the Romanists are trained to argument from their youth, and are always to some extent plausible.

It is of course impossible to determine, in such cases, how far the preacher, having conscientiously made up his mind on the subject by foregoing thought, and honestly desiring to impress his conclusion on his congregation, may think his object will be best, and even justifiably attained, by insisting on all that is in favour of his position, and trusting to the weak heads of his hearers not to find out the arguments for the contrary; fearing that if he stated, in any proportionate measure, the considerations on the other side, he might not be able, in the time allotted to him, to bring out his conclusion fairly. This, though I hold it an entirely false view, is nevertheless a comprehensible and pardonable one, especially in a man familiar with the reasoning capacities of the public; though those capacities themselves owe half their shortcomings to being so unworthily treated. But, on the whole, and looking broadly at the way the speakers and teachers of the nation set about their business, there is an almost fathomless failure in the results, owing to the general admission of special pleading as an *art to be taught* to youth. The main thing which we ought to teach our youth is to *see* something,—all that the eyes which God has given them are capable of seeing. The sum of what we *do* teach them is to *say* something. As far as I have experience of instruction, no man ever dreams of teaching a boy to get to the root of a matter; to think it out; to get quit of passion and desire in the process of thinking; or to fear no face of man in plainly asserting the ascertained result. But to *say* anything in a glib and graceful manner,—to give an epigrammatic turn to nothing,—to quench the dim perceptions of a feeble adversary, and parry cunningly the home thrusts of a strong one,—to invent blanknesses in speech for breathing time, and slipperinesses in speech for hiding time,—to polish malice

to the deadliest edge, shape profession to the seemliest shadow, and mask self-interest under the fairest pretext,—all these skills we teach definitely, as the main arts of business and life. There is a strange significance in the admission of Aristotle's Rhetoric at our universities as a class-book. Cheating at cards is a base profession enough, but truly it would be wiser to print a code of gambler's legerdemain, and give *that* for a class-book, than to make the legerdemain of human speech, and the clever shuffling of the black spots in the human heart, the first study of our politic youth. Again, the Ethics of Aristotle, though containing some shrewd talk, interesting for an *old* reader, are yet so absurdly illogical and sophistical, that if a young man has once read them with any faith, it must take years before he recovers from the induced confusions of thought and false habits of argument. If there were the slightest dexterity or ingenuity in maintaining the false theory, there might be some excuse for retaining the Ethics as a school-book, provided only the tutor were careful to point out, on first opening it, that the Christian virtues,—namely, to love with all the heart, soul, and strength; to fight, not as one that beateth the air; and to do with *might* whatsoever the hand findeth to do,—could not in anywise be defined as “habits of choice in moderation.” But the Aristotelian quibbles are so shallow, that I look upon the retention of the book as a confession by our universities that they consider practice in shallow quibbling one of the essential disciplines of youth. Take, for instance, the distinction made between “Envy” and “Rejoicing at Evil” (φθόρος and ἐπὶ χαλεπότητι), in the second book of the Ethics, viz. that envy is grieved when any one meets with good-fortune; but “the rejoicer at evil so far misses of grieving, as even to rejoice” (the distinction between the *good* and *evil*, as subjects of the emotion, being thus omitted, and merely the verbal opposition of grief and joy caught at); and conceive the result, in the minds of most youths, of being forced to take tricks of words such as this (and there are too many of them in even the best Greek writers) for subjects of daily study and admiration; the theory of the Ethics being, besides, so hopelessly untenable, that even quibbling will not always face it out,—nay, will not help it in exactly the first and most important example of virtue which Aristotle has to give, and the very one which we might have thought his theory would have fitted most neatly; for defining “temperance” as a mean, and intemperance as one relative extreme, not being able to find an opposite extreme, he escapes with the apology that the kind of person who sins in the other extreme “has no precise name; because, on the whole, he does not exist!”

I know well the common censure by which objections to such futilities

of so-called education are met, by the men who have been ruined by them,—the common plea that anything does to “exercise the mind upon.” It is an utterly false one. The human soul, in youth, is *not* a machine of which you can polish the cogs with any kelp or brickdust near at hand; and, having got it into working order, and good, empty, and oiled serviceableness, start your immortal locomotive, at twenty-five years old or thirty, express from the Strait Gate, on the Narrow Road. The whole period of youth is one essentially of formation, edification, instruction, I use the words with their weight in them; intaking of stores, establishment in vital habits, hopes, and faiths. There is not an hour of it but is trembling with destinies,—not a moment of which, once past, the appointed work can ever be done again, or the neglected blow struck on the cold iron. Take your vase of Venice glass out of the furnace, and strew chaff over it in its transparent heat, and recover *that* to its clearness and rubied glory when the north wind has blown upon it; but do not think to strew chaff over the child fresh from God’s presence, and to bring the heavenly colours back to him—at least in this world.

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